

PO No	Supplier	Line Item No			Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplie Name
PO038190	ACI001- VC	1	1	Net 30	M1018R07750	M1018R0.750 : MATERIAL: AISI 1018- 1025 ROUND BAR M1010S20GA AS PER MIL-S-7097 OR ASTM			8	(20	11/3/2017	18	-	1 S007165	Stock	11/6/2017	\$ 1.17 / ft	0		\$21.10	Acier Ouellette Inc.
		2			MT-1144-P1.000	1144 Steel Proof Round Bar 1.000"" ASTM A311 OR UNS G11440				10		10		S007166	Stock	11/6/2017	\$ 5.47 / ft	0		\$54.70	Acier Ouellette Inc.
		5		3	M6061T6R3.000	6061-T6 Round Bar 3.000": MATERIAL: 6061- 16/1651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS-4117 4128/4115/4116 OR QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft						10		S007167	Stock	11/6/2017	\$ 20.59 / ft	0		\$205.93	
		6			M6061T6#(3.250	6061-T6 Round Bar 3.250": MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- A-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft				6		6		S007168	Stock	11/6/2017	\$ 35.45 / ft	0		\$212.69	Acier Ouellette Inc.
		7			М303Н0.500	303 Hex Bar .500 : MATERIAL: AISI 303 SS HEX BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE receive ft				12		12		S007169	Stock	11/6/2017	\$ 5.42 / ft	0		\$65.00	Acier Ouellette Inc.
		8			M303RQ/150	303 Round Bar 0.750 : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft				60		62		S007170	Stock	11/6/2017	\$ 4.75 / ft	0		\$294.22	Acier Ouellette Inc.
August		9			M303R1/000	303 Round Bar 1.00 : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft				12		12		S007171	Stock	11/6/2017	\$ 7.90 / ft	0		\$94.82	Acier Ouellette Inc.
		10				303 Round Bar 2"": MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft						13		S007172	Stock	11/6/2017	\$ 32.04 / ft	0		\$403.71	Acier Ouellette Inc.
		11				2024-T3 .063 Sheet: MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209 receive sf				96		96)		\$007173	Stock	11/6/2017	\$ 9.90 / sf	0		\$950.00	Acier Ouellette Inc.
		12			, ,	304 Bar .250 X 4.00 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft				12		12		\$007174	Stock	11/6/2017	\$ 8.02 / ft	0			Acier Ouellette Inc.
		13			M304\$18GA	304/316 .050 Sheet : MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240 receive sf				96		(32)		5007175	Stock	11/6/2017	\$ 5.36 / sf	0			Acier Ouellette Inc.
=		14				304/316 .025 Sheet : MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240 receive sf				32		(32)		5007176	Stock	11/6/2017	\$ 2.90 / sf	0			Acier Ouellette Inc.
		15				5052-H32 .040 Sheet : MATERIAL: 5052-H32 ALUMINUM SHEET AS PER QQ-A-250/8 OR				64		64	/ s	5007177	Stock 1	11/6/2017	\$ 3.28 / sf	0			Acier Ouellette Inc.

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
						AMS-QQ-A-250/8 OR AMS 4016 OR ASTM B209 receive sf															
									Total:	442		379							\$	2,253.45	

Plex 11/6/2017 3:19 PM Dart Plouffe Sonia



Dart Hawkesbury 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

PURCHASE ORDER PO038190

Tel (613) 632-5200

Supplier: ACI001-VC

Ship To:

Acier Ouellette Inc. 935 Boul. Du Havre

Valleyfield

QC

J6S 5L1 Canada Phone: 800 667 4248 Fax: 450 377 5696

1270 Aberdeen Street

Hawkesbury

K6A 1K7 Canada Phone: 613-632-5200

ON

PO No:

PO038190

PO Date:

10/30/17

Due Date:

11/3/17

Purchase Order

Ship-To Contact:

Revision:

Revision Date:

02230

Phone:

Via:

Ground

Pymt Terms:

Net 30

Freight Terms:

Special Comments: QUOTE NO SOU0066341

				Ite	ms						
Line tem	Part	Rev	Description	Item Tax	Status	Due Date	Order Quantity	Received Quantity		Unit Price (CAD)	Extended Price
1~	M1018R0.750 DAS 9 9-89	-	M1018R0.750 : MATERIAL: AISI 1018- 1025 ROUND BAR M1010S20GA AS PER MIL-S-7097 OR ASTM A108		Firmed	11/3/17	20 ft 18.10	_		\$1.169/ft	\$23.38
2/	MT-1144-R1.000 DAS 9 9-89	- 1	1144 Steel Proof Round Bar 1.000" ASTM A311 OR UNS G11440		Firmed	11/3/17	/10 ft	0 ft	10 ft	\$5.47/ft	\$54.70
4	M6061T6B0.500X7.000	-	6061T6 Bar 0.500 X 7.000 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft		Firmed	11/3/17	6 ft	O ft	6 ft	\$20.8333/ft	\$125.00
5	M6061T6R3.000	-	6061-T6 Round Bar 3.000" : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	1,227	Firmed	11/3/17	10 ft	0 ft 104	10 ft	\$20.593/ft	\$205.93
6	M6061T6R3.250	-	6061-T6 Round Bar 3.250" : MATERIAL: 6061- T6/T651/T6510/T6511/T62		Firmed	11/3/17	6 ft	lest	6 ft	\$35.448/ft	\$212.69



Dart Hawkesbury 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

PURCHASE ORDER PO038190

Tel (613) 632-5200

				Ite	ms						76886748
Line Item	Part	Rev	Description	Item Tax	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
			ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft					a			
7	M303H0.500 and	-	303 Hex Bar .500 : MATERIAL: AISI 303 SS HEX BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE receive ft		Firmed	11/3/17	12 ft	0 ft)⊋ Å	12 ft	\$5.41666/ft	\$65.00
A	M303R0.750	-	303 Round Bar 0.750 : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft		Firmed	11/3/17	60 ft	0 ft 62+	60 ft †	\$4.7455/ft	\$284.73
9	M303R1.000	-	303 Round Bar 1.00 : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft		Firmed	11/3/17	12 ft	12A	12 ft	\$7.901666/ft	\$94.8
10	M303R2.000	-	303 Round Bar 2" : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft		Firmed	11/3/17	12 ft	0 ft R44	12 ft	\$32.040833/ft	\$384.4
11/	M2024T3S.063 DAS 9 9-80	-	2024-T3 .063 Sheet : MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209 receive sf		Firmed	11/3/17	96 sf	948	1.00.000	\$9.895833/sf	
12	M304B0.250X4.000	-	304 Bar .250 X 4.00 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft		Firmed	11/3/17	∕12 ft	2.H	12 ft	\$8.0225/ft	
13/	M304S18GA DAS 9 9-89	-	304/316 .050 Sheet : MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR		Firmed	11/3/17	96 sf	recu 325		\$5.355/sf	\$514.0 M



Dart Hawkesbury 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

PURCHASE ORDER PO038190

Tel (613) 632-5200

REAL		Heli		Ite	ms						
Line Item	Part	Rev	Description	Item Tax	Status	Due Date		Received Quantity		Unit Price (CAD)	Extended Price
	,		AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240 receive sf								
14	M304S24GA Q4S 9		304/316 .025 Sheet : MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240 receive sf		Firmed	11/3/17	32 sf	0 sf 325	32 sf	\$2.8975/sf	\$92.72
15	M5052H32S.040	-	5052-H32 .040 Sheet : MATERIAL: 5052-H32 ALUMINUM SHEET AS PER QQ-A-250/8 OR AMS-QQ-A-250/8 OR AMS 4016 OR ASTM B209 receive sf		Firmed	11/3/17	64 sf	0 sf 645	64 sf		
		-		-			W			Grand Total:	\$3,313.81

Order Notes

DWG REV PR17

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 10/30/17 8:15 AM dart.lavoie.chantal



Order - Sales

24

CO00059096

Billed to DART AEROSPACE LTD 1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7 Shipped to **Delivery Route** , Ontario, Att : CHANTAL LAVOIE Tél.: 613-632-5200 ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-426-4242 Page Date **Credit Terme** Carrier Salesman Customer N° Your order N° Processed by **Delivery date** Net 30 Days 039190 **OUELLETTE VALLEYFIELD** 2017/10/30 Josianne Bourdon 2017/11/03 CLI0001056

1X7"X72" HEAT B/O AC10703-TH-01/11	3 ALU PLATE 1/2 6061-T651 RANDOM PAL-126061-V 4229	COUPE A LA SCIE 9-85	MEAT: 01538	2 ROUND STRESSPROOF 1 RANDOM RST-1-V 5804	1 X 20' R/L (EAT: 41379A) 9-89	1 ROUND CR 3/4 1018 RANDOM DAS RCR-34-V 5332 9		Product Description	
	25.38			26.70		30.00		Weight	
	3.50	1.00		10.00		20.00		0 1 0	
	PI2_\$CLB	UN	-	PI_\$CLB		PI_\$CLB	4	II/M	
	1.00	VIII.		1.00		1.00	CMD		- ege
							EXP	PCS NB	
							В/0	В	
							IN		-
							1	Internal Use Only	
							S	al Use	
							TUO	Only	



1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

Order - Sales

Copy

CO00059096

DART AEROSPACE LTD Shipped to 935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242 Date Customer N° Processed by Your order No **Delivery date** CLI0001056 Josianne Bourdon 039190 2017/11/03 2017/10/30

Att : CHANTAL LAVOIE Tél.: 613-632-5200 , Ontario, Carrier Salesman

OUELLETTE VALLEYFIELD

Delivery Route S Page **Credit Terme** Net 30 Days

							1			
Product Description	Moight	2			PCS NB	8		Internal Use Only	al Use	Only
· · · · · · · · · · · · · · · · · · ·	ASCIDIL	Ark	U/M	CMD	EXP	в/о	NI	S	C	TUO
ALU 3 6061-T6	83.04	10.00	PI_\$CLB	1.00						
1 X 10' HEAT : (383774)										
COUPE A LA SCIE		1.00	CN CN							
SCIE 1										
S ROUND ALU 3 1/4 6061-T6 RANDOM	58.44	6.00	PI_\$CLB	1.00					—	
RAL-314-V 5152 744 1 X 6' HEAT:\\Z00080207										
6 HEXAGONE SS 1/2 SS303 RANDOM NS XSS-12303-V 8748	8.83	12.00	12.00 PI_\$CLB	1.00						
1 X 12' HEAT: (429366) AC10703-TH-01/11										



DART AEROSPACE LTD

1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

Order - Sales

Copy

CO00059096

Shipped to ACIER OUELLETTE INC.
935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-426-4242 Date Customer N° Processed by Your order N° **Delivery date** 039190 CLI0001056 Josianne Bourdon 2017/11/03 2017/10/30

, Ontario, Att : CHANTAL LAVOIE Tél.: 613-632-5200 Carrier Salesman OUELLETTE VALLEYFIELD

Delivery Route Page **Credit Terme** Net 30 Days

					PCS NB	7	Internal Use Only	אור
Li Agrice Describation	weight	Qty.	U/M	CMD	EXP B/O	N	I S C	TUO
7 ROUND SS 3/4 303 RANDOM RSS-34303-V 5761	90.12	60.00	PI_\$CLB	5.00				
8 ROUND SS 1 303 RANDOM NS RSS-1303-V 8519	32.04	12.00	PI_\$CLB	1.00				
1 X 12' R/L HEAT: \(\frac{507X}{}\) AC10703-TH-01/11								
9 ROND SS 2 303 RANDOM NS RSS-2-V 8931	130.80	12.00	PI_\$CLB	1.00				
1 X 12' R/L HEAT. (439513) AC10703-TH-01/11					-			
10 ALU SHEET .064 (14G) 2024-T3 (4 X 12) FEAL-0644122024 3166	86.50	96.00	PI2_\$CLB	2.00				
2 X 4' X 12 (HEAT: 237101B1) 9.66								



1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

, Ontario,

Carrier

OUELLETTE VALLEYFIELD

Order - Sales

Copy

CO00059096

DART AEROSPACE LTD Shipped to 935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242 Date Salesman Customer No Processed by Your order No **Delivery date** 039190 CLI0001056 Josianne Bourdon 2017/11/03 2017/10/30

	Product Description		
11812	Weight	Delivery Route	Att : CHANTAL LAVOIE Tél.: 613-632-5200
C	O#	5	Tél.: 613-632-5200
	PCS NB	Page	Credit Terme
	Internal Use Only	4	Net 30 Days

	2			700	6		THEFT		SE CHIY
eignt	γγ	U/M	CMD	ΕΧΡ	в/о	IN	H	S	C OUT
40.80	12.00	PI_\$CLB	1.00						
201.60	96.00	PI2_\$CLB	3.00						
33,60	32.00	PI2_\$CLB	1.00						
3									
		-							
	Weight 40.80 201.60 33.60 36.03	£ 8 8 8	Qty 12.00 50 96.00 50 32.00	Qty U/M 12.00 PI_\$CLB 96.00 PI2_\$CLB 30 32.00 PI2_\$CLB	Qty U/M CMD E 50 12.00 PI_\$CLB 1.00 50 96.00 PIZ_\$CLB 3.00 50 32.00 PIZ_\$CLB 1.00 33 64.00 PIZ_\$CLB 2.00	Qty U/M CMD EXP 30 12.00 PI_\$CLB 1.00 50 96.00 PI2_\$CLB 3.00 50 32.00 PI2_\$CLB 1.00 32 64.00 PI2_\$CLB 2.00	Qty U/M CMD EXP B/O 50 12.00 PI_\$CLB 1.00 B/O 50 96.00 PIZ_\$CLB 3.00 3.00 50 32.00 PIZ_\$CLB 1.00 1.00	Qty U/M CMD EXP B/O IN 30 12.00 PI_\$CLB 1.00 IN IN	Qty U/M CMD EXP B/O IN I S 30 12.00 PI_\$CLB 1.00 I S 50 96.00 PIZ_\$CLB 3.00 50 32.00 PIZ_\$CLB 1.00 33 64.00 PIZ_\$CLB 2.00



ACIER OUELLETTE INC. 935. Boul du Hâvre

Order - Sales

CO00059096

AC10706-TH-01/11 SURCHARGE ENERGETIQUE FRAIS_ENERGETIQUE	Product Description			1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7	DAKI ACKOSTACC LID					000111111111
45	Weight Qty U/M	Delivery Route 5	Att : CHANTAL LAVOIE Tél.: 613-632-5200	, Ontario,		Shipped to			Tel.: 450-377-4248 Mti: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mti: 514-336-4246 Ext.: 866-456-4242	Salaberry de Valleyfield (Québec) J6S 5L1
0.00	CMD EXP B/O	Page	Credit Terme	Carrier	Salesman	Processed by	Your order No	Delivery date	Date	Customer N°
	IN I S C OUT	5	Net 30 Days	OUELLETTE VALLEYFIELD		Josianne Bourdon	039190	2017/11/03	2017/10/30	CLI0001056

Conditions:

All sold and delivered materials remain the property of "Acer Quellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by All sold and delivered materials are at the buyer's expense. The warranty offered by "Acer Quellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acer Quellette Inc." to the client. The buyer neebly accepts to expect the following conditions: Net 30 days from billing date and the buyer accepts to bay administration enarges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceptant and permits to the seller, at his choice to claim for the balance due or the repossession of the goods soid. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Total Weight (LBS): 883.88

NIR: R-109516-6

Prepared By:

Verified By:

Delivered By :

Time

Customer's Signature

3

Total (\$CAD)

3 749.01 0.00

Balance Deposit

3 749.01

RCK-24-CU



ARANA Y LUPARDO, 2 48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN)

Tfno.: 946480211 Fax: 946480128

Email: calpradera@calibradospradera.es

www.calibradospradcra.es

TRA 1589 48440.

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 47862

ALBARAN 47862 Delivery Note Nr.

CLIENTE LES ACIERS TRANSBEC (1997) LTÉE CUSTOMER

Norma: EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm:

Bright steel products. Technical delivery conditions.

DAS

PRODUCTO SOLICITADO : PRODUCT ACCORDING ASTM A 108

9

Nº PEDIDO Purchase Order	DESCRIPCIÓN Description	KGS.	TOLERANCIA	OF	MEDIDA Mensiranent
VI 46700	12L14 RED. ESTIRADO 25,40 (1")	1.004	- 0.051	202437	25,40
PAR-47782	1013 RED. ESTIRADO 25,00	1.822	- 0.051	139261	25,00
PAR-47785	1018 RED. ESTIRADO 25,00	3.982	- 0,051	139283	25,00
PAR-47786	12L14 RED. ESTTRADO 12,70 (1/2")	1.000	- 0.051	137659	12,70
PAR-47795	1018 CUA. ESTIRADO 31,75 (1 1/4")	1.224	- 0,160	136439	31.75
SM-47572	1018 RED. ESTIRADO 15,88 (5/8")	1.008	- 0.051	916391	15,88
SM-47572	1018 RED. ESTIRADO 19,05 (3/4")	1.134	- 0.051	139479	19.05
OU-47832-	12L14 RED. ESTIRADO 12,70 (1/2")	1.000	-0,051	137659	
OU-47832	1018 RED. ESTIRADO 19,05 (3/4")	1.190	- 0,051	139625	12,70
PAJ-48073	1018 CUA. ESTIRADO 9,53 (3/8")	983	-0,090	915990	9,53
PAJ-48073	1018 RED. ESTIRADO 15,88 (5/8")	1.150	- 0.051	916216	15,88
PAR-48154	1018 CUA. ESTIRADO 6,35 (1/4")	784	- 0.090	915673	
PAR-48154	1018 RED. ESTIRADO 7,94 (5/16")	1.090	- 0.051	916609	6,35
PAR-48154	1018 RED. ESTIRADO 22,23 (7/8")	3.034	- 0.051	139773	7,94
PAR-48154	12L14 RED. ESTIRADO 15,88 (5/8")	824	- 0,051		22,23
MJP-47896	12L14 RED. ESTIRADO 25,40 (1")	784	- 0,051	916509	15,88
PAR-48154	1018 RED. ESTIRADO 28,58 (1 1/8")	744	- 0,051	202437	25,40
MN-47094	1018 RED. ESTIRADO 22,23 (7/8°)	1.012	- 0,051	916104	28,58

Composición quimica de la colada / Chemical Analysis of Heat

	OIDA rement	OF	COLADA	%	%	%	%	%	%	%	%	%	%	%
-		200,100	Cast Nr.	С	Cr	Cu	Mn	Mo	N	Ni	P	Pb	S	Si
25,40	0,00	202437	41300 AG	0,060	0,086	0,014	1,130	0,006	0,000	0,023	0,063	0,300	0,310	0.003
25,00	0,00	139261	41403 G	0,150	0,000	0,000	0.630	0.000	0.000	0.000	0,007	0,000	0,014	0.135
25,00	0,00	139283	41403 G	0,150	0,000	0,000	0,630	0,000	0.000	0.000	0,007	0.000	0,014	0,135
12,70	0,00	137659	41136 AA	0,067	0,025	0,016	1,057	0,004	0.000	0,018	0,053	0,192	0,014	
31,75	0,00	136439	40201	0,159	0,000	0,000	0,806	0.000	0,000	0.000	0,033	0,000		0,018
15,88	0,00	916391	40619 AA	0,145	0.000	0,000	0,775	0,000	0.000	0,000	0,013	The second second	0,024	0,183
19.05	0,00	139479	41379 AA	0,151	0,000	0.015	0,841	0.000	0.004	0,000	0.013	0,000	0,027	0,157
12,70	0,00	137659	41136 AA	0,067	0,025	0,016	1,057	0,004	0,000	0,000	****	0,000	0,029	0,204
19,05	0.00	139625	41379 AA	0.151	0,000	0,015	0,841	0,000	0,004	- was a second	0,053	0,192	0,283	0,018
9,53	0,00	915990	40828 G	0,140	0,000	0,198	0,760	0.000		0,000	0,012	0,000	0,029	0.204
15.88	0,00	916216	40619 AA	0,145	0,000	0,000	0,775		0,000	0,000	0,016	0,000	0,033	0,242
6.35	0.00	915673	40073 G	0,150	0,000	0,000		0,000	0,000	0,000	0,013	0,000	0,027	0,157
7.94	0.00	916609	41174 GM	0,170			0,770	0,000	0,000	0,000	0,007	0,000	0,026	0,235
22,23	0.00	139773	41472 AG	0.173	0,000	0,000	0,730	0,000	0,000	0,000	0,017	0,000	0,018	0,160
15,88	0,00	916509	41252 AA	THE COLUMN STREET	0,000	0,132	0,817	0.000	0,003	0,000	0,010	0,000	0,022	0,218
25.401	0,00	202437	41300 AG	0,068	0,033	0,020	1,134	0,004	0,000	0,022	0,055	0,329	0,290	0,021
28,58	0,00	916104	40910 G	0,060	0,086	0,014	1,130	0,006	0,000	0,023	0,063	0,300	0,310	0,003
				0,155	0,000	0,000	0,635	0,000	0,000	0,000	0,013	0,000	0,016	0,137
22,23	0.00	139824	41472 AG	0,173	0,000	0,132	0,817	0,000	0.003	0,000	0.010	0.000	0.022	0.218

Características mecánicas / Mechanical properties



ARANA Y LUPARDO, 2

48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN)

Tfno.: 946480211 Fax: 946480128

Email: calpradera@calibradospradera.es

www.calibradospradera.es

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

47862 CLIENT

N° CERTIFICADO / CERTIFICATE NR.: 47862

ALBARAN
Delivery Note Nr.

CLIENTE CUSTOMER

LES ACIERS TRANSBEC (1997) LTÉE

Norma: EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm .

Bright steel products. Technical delivery conditions.

MEDIDA Measurement	OF	COLADA Cast Nr.	Resistencia Tens. strenght N/mm2	Lim.elástico Yield point 0,2% N/mm2	Alargamiento Elongation Lo=50 mm.	Dureza FIB Hardness HB.	Estricción %
25,40	202437	41300 AG	556,11	543,10	19,46	159,00	46,32
25,00	139261	41403 G	558,02	541,20	18,34	169,00	61,11
25,00	139283	41403 G	558,02	541,20	18,34	169,00	61,11
12,70	137659	41136 AA	512,37	482,16	13,80	169,00	60,12
31,75	136439	40201	510,00	370,00	22,00	0,00	0,00
15,88	916391	10619 AA	579,16	547,66	19,70	169,00	58,82
19.05	139479	41379 AA	611,80	592,66	18,78	180,00	63,05
12,70	137659	41136 AA	512,37	482,16	13,80	169,00	60,12
19,05	139625	41379 AA	611,80	592,66	18,78	180,00	63,05
9,53	915990	40828 G	783,23	761,48	10,92	247,00	0,00
15,88	916216	40619 AA	574,47	549,90	20,16	162,00	
6,35	915673	40073 G	822,40	791,50	7,94	258,00	64,21
7,94	916609	41174 GM	754.80	715,70	12,24		47,07
22,23	139773	41472 AG	573,78	552,34	25,92	216,00	58,26
15,88	916509	41252 AA	622,39	607,75	12,72	172,00	57,86
25,40	202437	41300 AG	556,11	543,10	-	200,00	48,37
28,58	916104	40910 G	568,80		19,46	159,00	46,32
22,23	139824	41472 AG	573,78	546,30 552,34	32,76 25,92	169,00	59,00
				000,01	23,32	172,00	57,86

Calidad Superficial

DESCRIPCIÓN Description	OF	Clase EN 10277-1
121.14 RED. ESTIRADO 25,40 (1")	202437	3
1018 RED. ESTTRADO 25,00	139261	2
1018 RED. ESTIRADO 25,00	139283	2
12L14 RED. ESTIRADO 12,70 (1/2")	137659	3
1018 RED. ESTIRADO 15,88 (5/8")	916391	2
1018 RED. ESTIRADO 19,05 (3/4")	139479	2
12L14 RED. ESTIRADO 12,70 (1/2")	137659	3
1018 RED ESTIRADO 19,05 (3/4")	139625	2
1018 RED. ESTIRADO 15,88 (5/8")	916216	2
1018 RED. ESTIRADO 7,94 (5/16")	916609	2
1018 RED. ESTIRADO 22,23 (7/8")	139773	2
12L14 RED. ESTIRADO 15.88 (5/8")	916509	3
12L14 RED. ESTIRADO 25,40 (1")	202437	3
1018 RED. ESTIRADO 28,58 (1 1/8")	916104	2
1018 RED. ESTIRADO 22,23 (7/8")	139824	2



ARANA Y LUPARDO, 2

48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN)

Tfno.: 946480211 Fax: 946480128

Email: calpradera@calibradospradera.es

www.calibradospradera.es

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

Nº CERTIFICADO / CERTIFICATE NR.: 47862

3.1

CLIENTE

LES ACIERS TRANSBEC (1997) LTÉE

ALBARAN 47862 Delivery Note Nr.

CUSTOMER

Paroductos Calibrados de acero. Condiciones técnicas de suministro.

Norm:

Norma: EN 10277

Bright steel products. Technical delivery conditions.

Observaciones: BARRAS DE ACERO ESTIRADAS EN FRIO SIN ALEAR

DEPARTAMENTO DE CALIDAD: Certifica que el mencionado producto cumple con las especificaciones del pedido. QUALITY DEPARTMENT: Certify that the product fulfils the order specifications.

Fecha/Date: 19/06/2017

Firmudo: Susana Fernández

Directora de Calidad

Sistema de Gestión ISO 9001:2008

Union Drawn Steel II LP

1350 Burlington Street East, P.O. Box 98 Hamilton, Ontario, Canada L8N 3A2 Phone: (905) 547-4480, Fax: (905) 544-3852 1-800-263-9966

CERTIFICATE OF ANALYSIS CERTIFICAT D'ANALYSE

DATE	12/21/16	N	CUSTOMER C		NT	в 9	7554		MILL ORD NO DE U	ER NO	6818-	-00	
	DESCRIPTION DESCRIPTION								BILL OF L BON DE CONN				
	L 97	FE1482	9343	YOUR	RITEM	#:	v7199	52					
	1 RD 114	4) 20/2	2 FT				× .						
	"CENTURY" COLD FINI COLD DRAW STANDARD C .40/.48 TRANSPORT CHEMICAL ASTM A108 FINE GRAI	N AND S AISI TO MN 1.3 BY TRU & MECHA / A311	TRESS R LERANCE 5/1.65 CK - PR NICAL T	ELIEVE S P .040 OTECT EST RE	ANNEA MAX S WITH T	.24/ ARP							
LADLE	COUNTRY O HOT ROLL NAFTA CER ANALYSIS/ANALYSE	SOURCE	: HAMIL	TON SF	PECIALT	Y BA	AR						
_	HEAT NUMB	ER 0153	80	С.	.420	MN.	1.4	80	Р.	.009	S.		279
				SI.	.200	CU.	.1	60	NI.	.070	CR		080
				CB.		٧.			MO.	.026	РВ		
				В.		AL.			SN.				
MECHA	NICAL PROPERTIES HEAT NUMB							ELONGA ALLONG	TION (2 INCHE	12	.000	%	
YIELD ST	RENGTH 1	23000	P.S.I.	@ .2%	OFFSET			REDUCT	TION OF AREA	33	.000	%	
TENSILE RESISTAL	STRENGTH NCE A LA TRACTION 1	34000	P.S.I.					DURETE		255	НВ		
	MAG TEST	ROTO TEST		LTRA IC TEST		400	WE HEREBY WITH SPEC RECORDS O	CIFICATIO	N. AND THAT	TERIAL DESC THE RESULT	RIBED HAS S ARE CO	BEEN TEST RRECT AS	ED IN ACCORDANCE CONTAINED IN THE
THIS	WELDING OR WELD S MATERIAL WAS NO DCESSING OR WHILI	OT EXPOSED	O MERCURY		iL.		CONFORMÉ	MENT AL	ES NOUS CEI UX SPÉCIFICATION REGITRES DE LA	COMPAGNIE	LES RESUL	IÈRE DECH TATS SONT	ITE A ÉTÉ TESTÉS CORRECTS COMMÉ

	_	_									
Cast Number 3B3734	Chemical Composition	A.11	<u>Fo</u>	Mechanical Properties		3" ROD	ACIER OUELLETTE	200	OT GIHS	-	
A FE	Comp			al Pro		1					
Allox 6061	osition	6061	Alloy	perties			[i			
<u>Si</u> 0.62											
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68.0 5M		Oct/06/2016	Test Date			SO04665					
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o 🗵		Strength (KS) 46.1	mate]			3" ROD	6061	ACTOX	S	DIENUMBER	
Zn 0.01		1 (KSI) 46.10	Utimate Tensile			3" ROD	(16)	TEMPER	4665	BER	
10.0 Ti			Yield Strength						၀	DATI	
ە ق		(KSI) 43.20	trengt				USE/	SALESMAN	Oct/13/2016	DATE OF SHIPMENT	
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0 23						MILL TEST ASTM B221-14	NDE !	4	197683 44	ORDER NO.	
0 St			6			21-14	NCA			NO.	
Sr Co Al O Remainder			Conductivity				MADE IN CANADA	33	3	MANIFEST NO.	
Other ler 0								336425		ST NO	

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

OK 7/1/03

David Natale Quality Control Manager

1 - CUSTOMER COPY

PO-10703 Certificate of Mill Test Results

ACIER OÜELLETTE DIV-VALLEYFIELD FARRE RONDE ALUMINIUM 6061-T6511 3'250" DIA X 72.0000" PART NO.

PO/Rel AC60010703

Nous certifions que le document reproduit ici est une copie conforme du rapport foumi par le foumisseur du materiel ou les données resultent BL VIM-525671-001 de l'analyse faite par un laboratoire qualifie.

SIGNE PAR:

W I

Pg 1/1



Bestin

CERTIFIED TEST REPORT

http://Online.KaiserAluminum.com

KAISER ALUMINUM FABRICATED PRODUCTS, LLC 5205 KAISER DRIVE KALAMAZOO, MI 49048

CUSTOMER PO NUMBER. VIM-643200-3		R84/STK	KAISERSELECT I		0 (3.250 +/012
KAISER ORDER NUMBER 6038506	LINE ITEM	SHIP DATE: 09/15/2017	Z00080207	6061	TEMPER: T6511B
	9.000 PC	B/L NUMBER S 620309	DIAINDAEATAKNS	HIGH	12 000 F 1

M 17/11/02

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG*	HARI	NESS	CONDUCT.	BEND
200080207	0001	0001	53.9	50.6	14.C	RE	91	N/A	N/A
200080207	0001	0002	56.3	53.1	16.1	RE	92	N/A	N/A
200080207/	0002	0001	53.5	50.1	15.4	RE	94	N/A	N/A
200080207	0002	0002	51.4	51.1	14.9	RE	94	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fo	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA.	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.90	0.04	0.00	Ö., (1i).	N.A	24/4	ΣN	1.00	0.20
107685	.73	. 29	.28	.09	.93	.09	. (:4	.02	. 30	. "	. 1991		

Applicable Requirements:

PER ASTM-B221-14, STEMCTHED ASME-SB221 2009 SECT II DIR AMS-DD-A-2007-A UNST ABGUEL MEETS ALL SPECIFICATION RECUIREMENTS FOR 6061-76511/T6 ILEVATED MINIMUM MECHANICAY PROPERTIES AS FOLLOWS: UTS = 42.0 KS1 MIN YIELD = 38.0 KS1 MIN ELONGATION = 10.08 MIN

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILITZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Easier Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty A limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

aimed Machanic

Plant Serial: 00302972

Kalser Order Number: 6038506

Line Item: 003

Page 1 of 1

M 29096 DART

ACIER OUEL ETTE DIV-VALLEYFIELD BARRE HEX ACTER INOX: 303 :50° HEX X 144,0000° PART NO.

PO/Rel AC00010703

Nois certificies que le document reproduit de est une copie conforme de rapport foirm par le fournisseur du materiel ou les dannées resultent

Certificate of Mill Test Results





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THYSSENKRUPP MATERIALS NA

ACIER OUESLETTE DIV-VALLEYFIELD BAR E HEX ACIER INOX. 303 .50" HEX X 144.0000" PART NO.

Nous certifions que le document reproduit ici est une copie conforme du rapport fourni par le fournisseur du materiel ou les données resultent

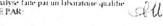
Certificate of Mill Test Results

BL VIM-5 5567 001

PU110705 .

Pg 2/2

de l'analyse faite par un laboratoire qualifie SIGNE PAR:





Acciaierie Valbruna s.p.A.

36100 VICENZA (Italia) - Viale della scienza, 25 z.l. Telefono 0444,96821 - Fax 0444,963836 Stab.: 29100 BOLZANO (Italia) - Via A. Volta, 4/37 Telefono 0471,924111 - Fax 0471,924407

CERTIFICATO DI COLLAUDO - ABNAHMEPRUEFZEUGNIS - INSPECTION CERTIFICATE - CERTIFICAT DE RECEPTION

In conformad a EN 10204 (2004) , 3.1 / ISO 10474 (2013) , 3.1

Conflicate nr MEST084794 / 2017 / Palent with the

VALBRUNA CANADA LTD 8724 HOLGATE CRESCENT LST 521 - MIL FON, ONT 1 5T 521 - CA

State di fomiliara Hot rolled - Annealed Cold Drawn Liefs dustin e Delivery state Ebits invasor

ACCIAIERIE VALBRUNA S.P.A.

Oraine nr. 705006369 Stock - Canada

Inna Elaboratione E.ACD Material England

Marchi di Entionia Nell'andre Laboration Transmissione del Signa dell'anni produzione

Thur Order Conferma ordine nr: El17005542

Qualea: 303HS

Punzone and Collaudatoro Ete moet den Worksondinen o'd ningen trasamer'n stare Phonese van Foorag MR

Avviso di Spadizione: D-VI17016934

March Market Bezo choung Brand of North

MV188ZHS MAXIVAL

Punzonatura, 303HS Penzelahura Menang Mangapa

Produced without class I-II Ozone deploting substances. Solution heat treated free from continuous carbide network. Micro and macro etch test : OK Reduction ratio = 175,7:1 Annealing temperature: 1940° F for 0.5 h/water. Material is DFARS Compliant

Sono state koddisfelte futte le conduzioni riun este fee geusser Arterdangen ind 1 Arbes 498 1 ne male that be tem future de in artoricare a vita the requirement te maseral 8 de traumi continue aus degencie.

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Controllo vistivo e dimensionale, scodista la enigenza Controllo visite in unit y dine personal in-reservati quel Aus messas, dine personal in-visite e socior en l'ammenta etiuse seconomi-Controllo visite di dimensioni, sessionnet

delied and manufactured in Italy

No welding or weld repair. Material free from Mercury contamination

We disclare that the finished product is checked for radioactive curtamination through Fortal System when it leaves the production plant

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLDYD'S REGISTER ACCORDING TO ISO 9001 : 2008, ISO/TS16949 : 2009, AS 9100C

The Quality Management System is Certified acc. Pressure Equipment Directive P07/23/ECT Annax 1.s.,4.3 and 2014/98/EU by TUEV and LLCYD S Any act of tampering, modification, alteration, counterfeiting and/or tals/fustion and/or any other action which modifies the continues of finis test certificate shall constitute a violation of applicable chill and criminal laws. Accidient valuer as the protect its rights and interests before any competent count, authority and jurisdiction. Maxival and/or Valoius grades/products are manufactured with ladie techniques to control composition, distribution, size and shape of non-metallic inclusions for improved

Information in the supplied product conforms to requirements expressly requested by the purchaser and conforms to requirements exectful by certified from said standards. Should the product be used for more severa, critical and/ or in any case deferent applications than those the material is generally intended for, any determit and/or supplementary requirements a half be specifically demanded, at least, upon order of the Product by the Purchaser, Accessine Valbruna. SpA shall not be responsible for any emproper use of the

Vicenza, 12/06/17

M.RIZZOTTO Strate

Pagina - 2 di 2

(Mos. MCE2) -

FPOS INOXIDABLES

Fatrondo FORU (VSZCANA) España P.O. Hoy J. 525-48/95/(Billian (G. 54/44) E.T. 15-0) FAX 71-44/13/53 (6.56)

Management Systems Certified by I RQA ISO 9001 / SGI 6000360 ISO 14001 / SGI 1870678 OIARRA

Trade Mark - Zeichen des Frefersterkest. Araguma del sumir strador	
Works Inspector Stamp - Workshich ceistan Sello del Inspector	.tt,::/ <3

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Certificate type - APZ N. Certificado tipo	ach EN	10204/	3.1	Certifica Certifica	te nº - Pruf-h do nº	27138	17	ate-Datum-Fec 2 - 05 - 201	
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Dimension of Specimen Abmessungendes Probest Medida de las probetas		Ro0 2% KSI	Rp 1% Rr KSI KS	n A A	; z	Harcress Harte HBw		it / Kersbschlag ISO V F Ib	/ Resiliencia
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Remarks - Bemerkungen - Observationes

Free From Mercury contamination/Quecksilberfreiheit. No weld repair.

EDV / EDP Acc. EN 10,204 Marian Fejedo Quality Mng.

Worldshipedor Der Werkseichner (undige Inspector de fabrica)

and a man

The content of the co

PO Ret ve modu703

BLVIM-525m

Str. No. 17 VA

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1.0.7

METALLURGICAL TEST

REPORT

6870 Highway 42 East Ghent, KY 41045-9615 (502) 347-6000

PO,10703

NAS

North American Stainless Canada Inc. 740 Imperial Road North Guelph, ON N1K1Z3

Customer: 007205 001

Cortificate: 334032 13

Your Order:

VIM643222

Finish: CD teol: 303 Date: 3(18/2017

Page: 1

Corresion:

Red Ratio: 69.4 :1

Round Bar, Adhealed, Cold Draw
UNB 19390, ASTW A582/12 EN 19204 3.1, ASTW A484/16
AMS 5640V TYRE 1, D06=764B CONDITION A
SOLUTION ANNEAL TEMP 1900F MIN, ASTM F899/12b PRODUCT DESCRIPTION:

NAS Order: IN 0253109 01 COMPLIES W/REQUIREMENTS OF DPAR 252.225-7009 EU DIRECTIVE REMARKS:

2011/65/EU.RONS. EAF+AOD+CC. NO WELD REPAIR. MELTED AND MEG

IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION M17/11/03

Product id	# PTHS	Skid # Diamotor Sizu	Sizu	Weight	Weight Bength Mark Pieces Commodity Code	Mark	Pieces C	omodity (Code
)							
BI9519 8		1.0000		809	144.00	1	r		

End Accreditation Bureau, ISO/IEC 17025, Certificate# 12323

CHEMICAL ANALYSIS CM(Country of Mett) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Chemical Analysis per ASTM A751/14a

NAS Heat	Đ.	0	je.	\$ 80	CR %	CO %	MN %	CX C % CO % CR % CO % MO % MO % N % NI %	N %	* IN	, d
507x	S		.037	.18	17.06	. 31	1.82	.27	.035	.035 8.51	-030
		8	36	SI &							
			.3180	.3180 .54							

MECHANICAL d ROPERTIES

в19519 в	Product Id
7 X	G G ₽
203.0	HB No.
	.21S KSI
98.33	ISE
38.63	, SE
27.11	Elng % 4D
	BI9519 8 R.L. 203.0 78.71 98.33 38.63 27.11

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the Items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Dept. Mgr.

Technical

40.10705

FART NO. 144,0000" ACIER OUELLETTE DIV-VALLE VEHALD

Nous certifions que le les montreps dont excest une copie conforme du ligner le unit par le fournisseur du materiel les de ances residient PO/Rel ACountering

Certificate of Mill Test Results

BL VIM-528667-002

SIGNE PAR:

NAS

North American Scientss Cunada Inc. 740 Imperial Road North Guelph, ON NIKIZA

METALLURGICAL TEST REPORT

6870 Highway 42 East Ghent, KY 41045-9615 (502) 347-6000

Customer: Certificate: 334032 12

007205 001

Your Order: VIM643222

PRODUCT DESCRIPTION:

Round Bar, Annealed Cold Draw UNS 30300, ASTM A582/12 KN 10204 3.1, ASTM A484/16 AMS 5640V TYPE 1 QOS-7646 CCMDITION A SOLUTION ANYEAL TEMP 1900V MIN, ASTM F899/12b

REMARKS:

NAS Order: IN 0253109 01

COMPLIES W/REQUIREMENTS OF DEAR 252,225-7009 IO DIRECTIVE IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION 2011/65/KU.HoH9. KAF+AOD+CC. NO WELD KEPAIR. MELTED AND MYG

Corrosions Red Ratio: 69.4 :1

Finish: CD Stool: 303

Date: 9718/2017

Page: 1

and 17/11/03

CHEMICAL ANALYSIS CM(Country of Mett) ES(Spain) US(United States) ZA(South Africa) . IPV innext	BI9519 6	Product Id
I S CM(Country of Me)	1.0000	Skid # Diameter Size
) ES(Spain) US(United Sta	1,231	
Lab Accreditatio	144.00 2	WeightLongth Wark Fiscen Commodity Code
reau, ISC	1	Pieces Commodity Code
NIEC 17025, Certificate# L232		

Chemical Anal ASOVIEC 17025, Certificate# L2323

_	T	1		7	9	1	(
			1	5074	MAS Heat	Cn(Country of Mert) ES(Spain) US(United States) ZA(South Africa) JP(Japan)	MA TOAL
			S		Q		ANALYS
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.3180 .54	SI %		.18 17.06	NI % NO % NO % NO % NI %	3	Chilcountry of Mer	
				5	3	t) ES(Spair	
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			. 27	NO %		A(South Africa)	
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9 ATCATE		Product Id
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78.71 98.33	K9I	il de la company
38.63	32	9,
27.11	* 4D	1

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Dept. Technical Mgr.

Doc No. 266823 Indexed 27Sep17 by msup6

PONOZO 3. Certificate of Mill Test Results

A..... QUELLETTE DIV-VALLEYFIELD BARRE RONDE ACIER (NOX. 303 2.00" DIA X 141.0000" PART NO.

PO/Rel AC00010703

Nous certifions que le document reproduit lei est une copie conforme da rapport formir par le formisseur du materiel on les dornées resultent de l'analyse taite par un laboratoire qualitie SIGNE PAR

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Tel 34-(4) 5 Tax 34-(4) 1		د اه بردنا	ISD 9001	mmi Systems child by I RQA I / SGI 640031 E / SGI 18705		`		1	ACFR		K	RA
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Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number 4474876

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CUSTOMER PO NU	MBER:	wo	RK PACK	AGE:	CUSTO	MER PART	NUMBER:		SHIP RUN/	OAD:	GOVITO	ONTRACT	NUMBER:	
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AMS 40	037/RevQ 019/RevD					MS-QQ- MMP 02	A-250/4/R 5/RevV	evB			/ ASTM	B 209/F	Rev14	
Test Code: 1	504													
						Toc	Dogulto							
Lot: 237101B	Cas	t 495		Dro	p 73	Test	Results Ingot 1						Melted	in USA
Lot: 237101B	Cas	t 495		Dro	р 73	Test							Melted	in USA
(ASTM E8/B5 (EN 2002-1)	Cas		r/#Te		p 73		Ingot 1		/ield KSI	(MPA		Elamani:		in USA
(ASTM E8/B5 (EN 2002-1) Tensile:	57) Cas	Di	11/09 MIN (0/200				Ingot 1 e KSI (MP/) (A	/ield KSI	and the same of the		Elongatio	on %	in USA
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(ASTM E8/B5 (EN 2002-1) Tensile: 1 (ASTM E1251 Chemistry: Actual(wt%)	57) Femper 73 SI 0.06	Di LT FF O.19	E 9 4	ests lin:Max CU 4.6	MN 0.60	Ultimat 66.8 : ((461 : 4 MG 1.4 ALLOY	e KSI (MP/67.2 463) CR 0.00	A) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	14.8 : 45 309 : 31 ZN 14 O	.4 3) TI 02	V 0.01	19.2 : 1 ZR 0.01 ZR	on % 9.6 TOT OTHER	OTHER 0.02 MAX
(ASTM E8/B5 (EN 2002-1) Tensile: 1 (ASTM E1251 Chemistry: Actual(wt%)	Cas 57) Femper 73 SI 0.06	Di LT FI 0.15	E 99	ests lin:Max CU 4.6	MN 0.60	Ultimat 66.8 : ((461 : 4 MG 1.4	Ingot 1 e KSI (MP/67.2 463) CR 0.00 / LIMITS CR 0.00	A))	2N 2	.4 3) TI 02	V 0.01	19.2 : 1 ZR 0.01	on % 9.6 TOT	OTHER 0.02



Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number 4474876

CERTIFICATION

- Kaiser Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and hereby certifies that all material shipped under this order:

 * has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein.

 All test equipment and measuring devices are calibrated and certified in accordance applicable specifications. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. Reported elongation was have been measured as elongation at fracture.

 *was method in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for

was metted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of UPARS 292.225 for domestic content.

has been thermally processed in compliance with AMS 2772, where applicable.

is in compliance with Entire transport of ASTM E1215 (< 1pm).

is in compliance with European Union Directive 2011/65/EU.

is five of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.

is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.

is free of Wed Frank

meets the reporting requirements of EN10204, Type 3.1.

Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under receral law.

JAMES HEMENWAY, TECHNICAL PROCESS MANAGER

Page 2 of 2

\$352/ FSS-149 7R939

Document number / 11/01/2016 N° de certificado / Baschphicument Manufacturer / Fabricanze / Heratotanneck Type of document I Title the documents I An der Prübescheinigung INSPECTION CERTIFICATE 0000238008/ outokumpu CERTIFICADO DE INSPECCION ABNAHMEPRÜFZEUGNIS 1 / 1 according to / de acuerdo con / nach EN 10204-3.1 1 Steel Drive; P.O. Box 13000; Calvert, AL 36513-1300 Customer's arder number I H' de Pedido Cherte I Kundenbestelle TO-2170 Hanufacturer's works order no. I M' de Pedido Hanufactura / Werksauttragum. 901209098/004 Defvery note no. I H" de Entrega / Lieferanzeige Hr. 85435886 / 010 Product / Producto / Erraugris COIL/BOBINA/BAND Jerms of delivery I Conditiones de entrega / Lieferbedingungen Steel grade and quality / Acers / Statistics and Gulegruppe ASTM A240/A240M-16, ASME SA-240 Sec. II part A Ed. 2015 TYPE 304L/304 ASTM A480/A480M-16a, ASME SA-480 Sec. II part A Ed.2015 Product dimensions (Thickness / Width / Length) / Dimensiones (Express / Ancho / Lange) / Haite des Erzeugnisses (Dicke / Breise / Lange) 6.35 mm x 1,219.20 mm AOD Ila / 1D / No.1 0.2500 Inch x 48.0000 inch Actual weight/ Feso actual/ In-General Actual length/ Longitud actual/ Isl-Lange 7057277 1 20,867 tb / 9,465 kg 495 R / 151 m 783735 512698 1000427273 1000427274 Som / Soma / Somme 20,857 lb / 9,465 kg 1 Country of Met: / Pars de créade / Erschmolousgaler Chemical composition / Composition Dumical Chemische Zusammensetzung % C 1% 51 1% Mn 1% P % 3 % Cr % Mo % NI % N % Cu 512698 USA 0.024 0.38 1.40 0.028 0.0010 18.24 0.35 8.01 0.073 0.50 Samp's Position/ Loca a de la muestral Proberlaga TRANSVERSE YS0.2% TS E. A2" HRB PSI / MPa PSI / MPa 1000427273 46,990/324 92,820/640 55 82 1000427274 42,349 / 292 88,515 / 611 60 80 Resident to invergrander contains I Residente contra condicionen grander I Besténdig geg. Interbial. Kurroston. ASTM A 262 PRACTICE E - Sample Acceptable mensions-surface / Dimensiones-Superficia / Natio-Operfache: Test of identity (spectrum analysis) / Control de identidad (aradista espectografico) / Verwechslungsprufung (Spektralanalyse): Heat Treatment: Solution annealed 1920°F Min / Air cooled In 17/11/03 No welding or weld repairs were performed on this material No intentional additions of Mercury compounds were made or used Free of radioactive contamination EU RoHS Directive 2011/65/EU Compilant Product manufactured in the USA Country of Heat as per ISO 3166-1 Odpinator et the document / Originador del documento / Aussteller der Beschamioung The information provided is a true copy of data on Sie?

Lot valores provivatos sorrespruden a los datos activados /

Die genenerian Werte entsprachen dan gespechenzen Daten Date of issue and validation Fecha de emisión y validación Datem Ausstellung / Bestäligung Outokumpu Stainless USA, LLC An ISO 9001: 2008 certified company EU PED 97/23/EC, Anex I, 4.3 certified 11/01/2016 Alla Frat This document shall not be altered or reproduced, except in fut; Fractivent, fictions, or false at interests or enviro may be protecuted by law, Andrew Faucett Phone: +1 251 823 3492 Certificate is generated automatically a Certificado es generado automoticamente a Das Zeugnis wurde elektronisch erstete Name of expert / Nombre del experts / Hatra des Sachverständigen

SHIPPER NO

CERTIFICATE OF TEST

AL 6168-6 0814

CUST ORD NO & DATE

09/12/16 788650 | CUST CODE REPEAT DO ORDER RATE 00023-0 25 VANDERGRIFT, ACCEPTING MILL

7219.33.0000 PA |515916

13020102060000 |30-096-179 1124 VANDERGRIFT PRODUCT CODE MILL ORDER NUMBER PA 667644 109/13/16 DATE SHIPPED

PRIME DSO 30 DSO 45

499506

CARRIER - SUNTECK TRANSPORTATION

"ATI 304" STAINLESS STEEL SHEET C R COILS ANNEALED 2B FIN 3 EDGE (304/304L) (ASME-SA-480 ED (ASTM-A-480-16A) (ASTM-A-240-16) (ASME-SA-240 ED 2015) 2015)

ITEM PCS DIMENSIONS W/G/L 1 48 (7.024) 3468. CUST IDENTITY T304L.024X48 1 SKID

> 849356 HEAT # AAB53839-B

COIL # 8840300

TEST #

GROSS

TARE NET THEO

TAG #/

G

SKID

13770 SO 13720

13770

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ORDER REMARKS: DIST: EXW -EXCEPT VAT AND OTHER APPLICABLE LOCAL TAXES WHICH ARE THE INVOICE TO AP®SAMUEL.COM RESPONSIBILITY OF THE BUYER

100 TEST LOCATION TEST LOCATION HEAT ITEM TEST NO TYPE HEAT/TEST 8840300 849356 (WT 0/0 * Y.S. BY 0.2% OFFSET METHOD # ELONG AT FRACTURE C T 49400. .025 BN --C---48100. PSI * YIELD 1.68 BN --MN--TENSILE % ELONG 97000. OL PSI . 035 BN -- P---56. 52. ## IN 2" .0001 BN --S---0/0 NR R/A .33 BN --SI--84.HRBW 84.HRBW TC HARDNESS 18.32 BN --CR--(MEASURED) (69.HR30TW (69. HR30TW 8.14 BN --NI--.07 --N---

BEND

NR

CORROSION ASTM GRAIN

NR = DATA NOT REQUIRED

GRADE VERIFICATION WAS CARRIED OUT SPECTROSCOPICALLY

PAGE

01

CONTINUED ON PAGE 02

CONSIGNEE: Pease Note-This consignment was surred own to surreur of this product are available on our our espons built of insign rest or damage with present as cannees. If any sorring surreur our espons built of insign rest are set cannees to prove the product of pease estame the product as a cannees. If any sorring is discovered when a full description made by pease surround provided making in discovered when a full description made by be performed prior to working with this product and all eatery transportation agent on was clientize signing.

09/13/16 09:23:28

The above is a true copy of data on file. The material and test results conform to the sales contract and specification(s) as set forth in ATI Flat Rolled Products' Order Acknowledgement.

death

Director, Corporate Quality Assurance

CUST ORD NO & DATE

09/12/16 788650 CUST CODE VANDERGRIFT, ACCEPTING MILL

7219.33.0000 PA |515916

Flat Rolled Products

SHIPPER NO

| 13020102060000 | 30-096-179 1124 VANDERGRIFT PRODUCT CODE MILL ORDER NUMBER PA 667644 109/13/16 DATE SHIPPED

ORDER RATE OF PRIME SEC 30 SEC. DSO 45

"ATI 304" STAINLESS STEEL SHEET C R COILS ANNEALED 2B FIN 3 EDGE (304/304L) CARRIER - SUNTECK TRANSPORTATION

EN 10204:2005 - 3.1 CERTIFICATE DOES NOT INDICATE PED APPROVAL FOR THIS MATERIAL

EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW IS PROHIBITED. U.S. LAW ALSO PROHIBITS DISPOSITION OF THESE COMMODITIES/TECHNICAL DATA TO ANY END-USER OR FOR ANY END-USE RELATED TO THE DESIGN DEVELOPMENT, PRODUCTION, STOCKPILING, OR USE OF CHEMICAL, BIOLOGICAL, OR NUCLEAR WEAPONS, OR MISSILES, WITHOUT THE PROPER APPROVAL OF THE UNITED STATES GOVERNMENT. THESE COMMODITIES OR TECHNOLOGY, WHEN EXPORTED FROM THE UNITED STATES, ARE IN ACCORDANCE WITH THE USA

THE HARDNESS CONVERSION WAS PERFORMED USING EQUATIONS GIVEN IN ASTM E140 DEVELOPED FROM DATA IN TABLES 1, 2, 3, 5, AND 6. THE PARTICULAR EQUATION USED WAS BASED ON MATERIAL TYPE AND MEASURED HARDNESS SCALE. PER ASTM E140; THE CONVERSION VALUES ARE ONLY APPROXIMATE AND MAY BE INACCURATE FOR SPECIFIC APPLICATION.

THIS CERTIFIED MATERIAL TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL. FEDERAL LAW PROHIBITS THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE AND MAY BE PUNISHABLE AS A FELONY UNDER FEDERAL LAW. ATI FRP HOLDS SEVERAL QUALITY CERTIFICATIONS THAT INCLUDE ISO-9001, AS9100, NADCAP, AND ISO/IEC 17025. MATERIAL WAS MANUFACTURED IN ACCORDANCE WITH THE ATI FRP QUALITY MANUAL REVISION 24 DATED 10/16/2015.

ATI FLAT ROLLED PRODUCTS PERFORMS CHEMICAL ANALYSIS FOR TESTING LOCATIONS TC, BN, MI, & LO: BY THE FOLLOWING TECHNIQUES

C, S BY COMBUSTION/INFRARED

O, H BY INERT FUSION/THERMAL CONDUCTIVITY

B BY OES MN, P, SI, CR, NI, MO, CU, CB, CO, V BY WDXRF

AL AND TI (>=0.10%) BY WDXRF, OTHERWISE PB, BI, AG BY GFAA BY OES

PAGE 02 -CONTINUED ON PAGE 03

GONSIGNEE: Pease Note: This consignment was lurined own to wronking and the first class consider length careful valued at another our responsibility base or amage in shipment ceased for your substitution. A thorough review of the protection please examine shipment as it amises if any sociate or damage is discovered. These a full description made by be performed prior to working with this product and all safety be performed prior to working with this product and all safety.

The above is a true copy of data on file. The material and test results conform to the sales contract and specification(s) as set forth in ATI Flat Rolled Products' Order Acknowledgement.

Stephen Wolff - T Director, Corporate Quarty Assurance

C17166
FORMS DISTRIBUTION
SOLD | 1 SHP | SPEC

CUST ORD NO & DATE

09/12/16 788650 VANDERGRIFT, PA 515916 CUST CODE PRIME SEC. ACCEPTING MILL Flat Rolled Products SHIPPER NO

7219.33.0000

| 13020102060000 | 30-096-179 1124 VANDERGRIFT PRODUCT CODE WILL ORDER NUMBER PA 667644 109/13/16 DATE SHIPPED

30 30

CARRIER - SUNTECK TRANSPORTATION "ATI 304" STAINLESS STEEL SHEET C R COILS ANNEALED 2B FIN 3 EDGE (304/304L)

ATI FLAT ROLLED PRODUCTS HAS NO CONTROL OVER CUSTOMER PROCESSING OF MATERIAL; INCLUDING, BUT NOT LIMITED TO, BUFFING OR ELECTROPOLISHING MATERIAL WITH A 2B OR OTHER FINISH, AND DOES NOT REPRESENT OR GUARANTY THAT THE MATERIAL IS SUITABLE FOR ANY PARTICULAR PROCESS OR USE OF CUSTOMER.

EN 10204:2005 3.1 CERTIFICATE.

TESTING WAS PERFORMED AT THE FOLLOWING LOCATIONS:
BN = ATI-FLAT ROLLED PRODUCTS; 100 RIVER ROAD; BRACKENRIDGE, PA 15014
TC = ATI-FLAT ROLLED PRODUCTS; 1300 PACIFIC AVENUE; NATRONA HEIGHTS, PA 15065

>>>>>>> FOR ACCESS TO ONLINE CERTIFICATES OF REGISTER AT MYATI.ATIMETALS.COM TEST >>>>>>>

PAGE 03 -FINAL PAGE.

GONSIGNEE: Pease Note: This consequent as timed over to surround the first class constead in series careful watered at a first class constead in series of the protection please examine an premit as it amines if any series of the protection please examine an premit as it amines if any series of the protection please examine an full description made by the performed prior to working with this product and all safety be performed prior to working with this product and all safety be performed prior to working with this product and all safety be performed prior to working with this product and all safety be performed prior to working with this product and all safety be performed prior to working with this product and all safety be performed prior to working with this product and all safety because of the provided prior to working with this product and all safety because of the provided prior to working with this product and all safety because of the provided prior to working with this product and all safety because of the provided prior to working with this product and all safety because of the provided prior to working with this product and all safety because of the provided prior to working with this product and all safety because of the provided prior to working with this product and all safety because of the provided prior to working with this product and all safety because of the provided prior to working with this product and all safety because of the provided prior to working the

The above is a true copy of data on file. The material and test results conform to the sales contract and specification(s) as set forth in A f1 Flat Rolled Products' Order Acknowledgement.

09/13/16

09:23:28

Director, Corporate Quality Assurance

CERTIFIED MILL TEST/QUALITY CONTROL CERTIFICATE

PT: ALUMINDO LIGHT METAL INDUSTRY, TBK

DS. SAWATRATAP GEDANGAN SIDOARJO 81254, INDONESIA

2118 LINGWOOD AVENUE PORT LEE NEW JERSEY 07024 Address PRIME ALUMINUM SHEET Product Type

LIC NO.: ILC30471

DD.: 170118
ISSUED BY: RABOBANK NEDERLAND
NEW YORK, NY UNITED STATES

Merch 16, 2017

RELEASE ORDER NUMBER: R153427

PT. ALUMINDO DIGHT, METALINEUSTRY, THE

Q. Assurance Machfud

COUNTRY OF MELT AND MANUFACTURE; INDONESIA

IN IMPERIAL NOMENCLATURE REQUIRED PER SKID INDICATING A UNIQUE HEAT NUMBER INDICATING ADTUAL WILL CHEMICAL AND MECHANICAL PROPERTY TEST REPORTS 98

17026119DK 17026119DK 1702(1037DK 17020037DK

.080"X 60" X 120" .080" X 80" X 120"

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17028027BK 17028027BK

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040" X 48" X 86" .b40" X 48" X 96"

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90,0

Description of Product

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Yield

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227

5052

(emande 0.10 max: 2.20-2.80 0.26 max: 0.30 max: 0.10 max; 0.10 max; 0.05 max; 0.15-0.35

Standard Number

.051-113 Thickness

EMPIRE RESOURCES INC.

Customer

ALE1701367

STANDARDS, ASTM BZ09-10, AMS-QQ-A-250/8B AND AMS-4016L MATERIAL CONFORMS FOR ALLOY 5052 H32 ALUMINUM ASSOCIATION

AL01803180

CERTIFICATION DU MATÉRIEL

CLIENT:

ACIER OUELLETTE INC DIV.DE

SALABERRY-DE-VALLEYFIELD

935 BOUL DU HAVRE

SALABERRY-DE-VALLEYFIELD, QUEBEC

QC J6S 5L1

NUMÉRO DE COMMANDE:

14698292 000010

COMMANDE DU CLIENT:

AC10706

NUMÉRO DE PIÈCES:

71010100

NUMÉRO DE LIVRAISON:

803365231 000010

NUMÉRO D'ARTICLE:

160002026

DESCRIPTION INVENTAIRE:

SHT 5052 H32 .040 X 48 X 96

DESCRIPTION ARTICLE FINIS: ALUM FL 5052 H32 PI

0.04po X 48po X 96po

NUMERO (S) DE COULÉE

BRAME / BOBINE / TIN (le cas échéant)

17028037DK

6B17028037DK

CERTIFICATION

Un sondage de nos sources matérielles a indiqué que ni le mercure ni des substances radioactives ne sont introduits dans leurs produits ni ne sont utilisés dans aucun de leurs procédés. Alors que nous ne faisons aucun test indépendant pour le mercure ou la radiation, il n'y a rien dans le système qui pourrait entraîner la contamination de l'un ou l'autre type.

Ce document certifie que le matériel décrit ci-dessus a été expédié conformément à votre commande. Le producteur du matériel a certifié qu'il a été produit conformément aux spécifications suivantes:

ASTM B209

AMS 4016

Thomas Endres

Vice-président - Approvisionnement

10/31/2017



Shipped to

, Ontario,

DART AEROSPACE LTD

HAWKESBURY, Ontario, K6A 1K7

Instruction

T-\

1270, ABERDEEN ST.

ACIER OUELLETTE INC.
935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248

Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Date Customer N° 2017/10/30 CLI0001056

Your order N° **Delivery date** Processed by 039190 Josianne Bourdon 2017/11/03

Salesman

Carrier **OUELLETTE VALLEYFIELD**

Delivery Route Att : CHANTAL LAVOIE Tél.: 613-632-5200 Page **Credit Terme** Net 30 Days

									,			_	
	1 X 7" X 72" HEAT AC10703-TH-01/11	3 ALU PLATE 1/2 6061-T651 RANDOM PAL-126061-V 4229	SCIE 1	COUPE A LA SCIE	1 X 10' HEAT		RST-1-V 5804	2 ROUND STRESSPROOF 1 RANDOM	1 X 20' R/L HEAT	RCR-34-V 5332	1 ROUND CR 3/4 1018 RANDOM	riodact pescribuon	Broduct Description
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				e e							IT.	NI	
												I S C	Internal Use Only
												OUT	ıly





Shipped to

, Ontario,

DART AEROSPACE LTD

1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

ACIER OUELLETTE INC.
935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248

Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Date Delivery date Customer N° Your order N° Processed by 039190 2017/10/30 CLI0001056 Josianne Bourdon 2017/11/03

Att: CHANTAL LAVOIE Tél.: 613-632-5200 Salesman Carrier **OUELLETTE VALLEYFIELD**

Credit Terme Net 30 Days

Instruction Ţ **Delivery Route** Page

Floance pescription	Weight	Qty /U/M
4 ROUND ALU 3 6061-T6 RANDOM RAL-3-V 5161	83.04	10.00 PI_\$CLB
1 X 10' HEAT COUPE A LA SCIE SCIE 1	-	1.00 UN
5 ROUND ALU 3 1/4 6061-T6 RANDOM RAL-314-V 5152	58,44	6.00 PI_\$CLB
1 X 6' HEAT AC10703-TH-01/11		
6 HEXAGONE SS 1/2 SS303 RANDOM NS XSS-12303-V 8748	8.83	12.00 PI_\$CLB
1 X 12' HEAT AC10703-TH-01/11		



DART AEROSPACE LTD

HAWKESBURY, Ontario, K6A 1K7

1270, ABERDEEN ST.

Instruction

T-X

ACIER OUELLETTE INC.
935, Boul. du Hâvre
935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248

Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route

Date Customer N° 2017/10/30 CLI0001056

Your order N° Delivery date 039190 2017/11/03

Salesman Processed by Josianne Bourdon

Carrier **OUELLETTE VALLEYFIELD**

Page **Credit Terme** Net 30 Days

Droduct Description	W/Aight	?			PCS NB	В		Internal Use Only	al Us	se O	Ίγ
Floatice pescription	AACIGIIC	Λιλ	O/M	CMD	EXP	в/о	IN	I	S	С	OUT
7 ROUND SS 3/4 303 RANDOM	90.12	60.00	PI_\$CLB	_	1				_		
RSS-34303-V 5761				,	120				11232		
5 X 12' R/L HEAT					3						
8 ROUND SS 1 303 RANDOM NS	32.04	12.00	12.00 PI_\$CLB								
RSS-1303-V 8519				(5 F						
1 X 12' R/L HEAT AC10703-TH-01/11											
9 ROND SS 2 303 RANDOM NS RSS-2-V 8931	130.80	22.00	£2.00 PI_\$CLB	_	TY .						
1 X 12' R/L HEAT AC10703-TH-01/11			2		たと						



Shipped to

, Ontario,

DART AEROSPACE LTD

1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

ACIER OUELLETTE INC.

935, Boul. du Hâvre Salaberry de Valleyfield (Québec) J6S 5L1 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248

Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Date **Delivery date** Your order N° **Customer N°** 039190 2017/11/03 2017/10/30 CLI0001056

Carrier Salesman **OUELLETTE VALLEYFIELD**

Processed by

Josianne Bourdon

Credit Terme Net 30 Days

Delivery Route Att: CHANTAL LAVOIE Tél.: 613-632-5200 **Page**

Instruction F-M	Delivery Koute	U		9-			
	Weight			PCS NB		Internal Use Only	ılγ
Product Description	weight	Qty	CMD CMD	D EXP B/O	IN	I S C	ОИТ
10 ALU SHEET .064 (14G) 2024-T3 (4 X 12)	86.50	Ø6.00 PI	PI2_\$CLB	7 7 4			
FEAL-0644122024 3166	- 1 3		90				
2 X 4' X 12' HEAT				JAY Y			
AC10705-SA-01/11							
11 FLAT SS 1/4 X 4 SS304 RANDOM	40.80	12.00 P	PI_\$CLB	3			
FSS-144-V 3522				, 7			
1 X 12' R/L HEAT				72			
12 SHEET SS 18G SS304-2B (4 X 8)	201.60	96.00 PI	PI2_\$CLB	86-47			
FESS-18G483042B 3425							
3 X 4' X 8' HEAT				NY NX			
13 SHEET SS 24G SS304-2B (4 X 8)	33.60	32.00 PI	PI2_\$CLB	;			
FESS-24G483042B 3441			Ç.	7			
1 X 4' X 8' HEAT	1			6			

NIR: R-109516-6

817-1-6.



Shipped to

, Ontario,

DART AEROSPACE LTD

HAWKESBURY, Ontario, K6A 1K7

1270, ABERDEEN ST.

ACIER OUELLETTE INC.

Salaberry de Valleyfield (Québec) J6S 5L1 935, Boul. du Hâvre

Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248

> Date **Customer N°** 2017/10/30 CLI0001056

Your order No **Delivery date** Processed by 039190 2017/11/03

Salesman

Josianne Bourdon

Carrier

Net 30 Days

OUELLETTE VALLEYFIELD

Page **Credit Terme**

Att: CHANTAL LAVOIE Tél.: 613-632-5200

5

	CZX 4 3 B HEAT	15 At. 5052H 32 SHEET . 030	2 X 4' X 8' HEAT AC10706-TH-01/11	14 ALU SHEET .040 (18G) 5052-H32 (4 X 8) FEAL-040485052 3124	Product Description		Instruction F-M
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. 10				36.03	Weight		Delivery Route
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		-	P		S C	Internal Use Only	
	9		11-16.		TUO	Only	

Conditions:

All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge

Total Weight (Lbs): 883.88

NIR: R-109516-6

	SA	Delivered By :	
		Time	
Customer's Signature			
Da	11)11/	- - - 3	

Prepared By:

Verified By:

Total (\$CAD)



DART AEROSPACE LTD

1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

ACIER OUELLETTE INC.

935, Boul. du Hâvre Salaberry de Valleyfield (Québec) J6S 5L1 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248

Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Shipped to

, Ontario,

Delivery date Date **Customer Nº** 2017/10/20 2017/10/16 CLI0001056

Processed by Your order No Josianne Bourdon 038050

Salesman

Carrier **OUELLETTE VALLEYFIELD**

Att : CHANTAL LAVOIE Tél.: 613-632-5200 Page **Credit Terme** Net 30 Days

Instruction F-M	Delivery Route	5	Page			
Product Description	Weight		PCS NB	В	Internal Use Only	٧
	Media	60 O/M	CMD EXP	в/о	IN I S C	TUO
1 SQUARE 4140 1/2 SPH ANN NS	10.00	12.00 ~ PI	7			
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AC10294-JG-25/10	19		2,0			
2 ROUND 4140 ANNEALED 1 1/2 RANDOM	72.10	12.00 PI_\$CLB				
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1 X 12'			A.			e 3
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SCIE 1				Ć		
TRANSFERT ST-JEROME LE 18/07						
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MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:		THIC	KNESS ORDER KNESS RECEIV ET SIZE ORDER ET SIZE RECEIV	ED:			
DESCRIPTION	(Ch	CR eck (N)	a .		COMMENTS	S	
SURFACE DAMAGE	Υ	M					
CORRECT FINISH	(9)	N					
CORROSION	Y	8					
CORRECT GRAIN DIRECTION	(3)	N					
CORRECT MATERIAL PER M-DRAWING		N	ASTM A	1102			
CORRECT THICKNESS	(3)	N					
PHOTO REQUIRED	Y	(1)					
CORRECT REF # TO LINK CERT	(0)	N	41379 AD	1			
CORRECT MATERIAL IDENTFICATION		N					
CORRECT M# ON THE MATERIAL	(A)	N					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	(1)					
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	B					
							4
CUT SAMPLE PIEC			TERIAL AND ORD RESUL			SS CHECK.	
			HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL							
SIZE OF TEST SAMPLE							
HARDNESS / DUROMETER READ	NG			NI .			

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	DAS 9	SIGNED OFF BY:
DATE:	17.11.12	DATE:

5

w

PART NUMBER: SPECIFICATION: M1018-R D.DDD WHERE D.DDD = DIAMETER IN INCHES DIA. EG. 7/8" ROUND BAR = M1018-R0.875 MIL-S-7097 OR ASTM A108

PURCHASE MATERIAL: AISI 1018-1025 ROUND BAR

UP TO 1.5" INCL OVER 1.5" TO 2.5" INCL OVER 2.5" TO 4.0" INCL OVER 4.0" TO 6.0" INCL OVER 6.0" TO 8.0" INCL PER ASTM A108 AS FOLLOWS: TOLERANCE +0.000/-0.002 +0.000/-0.003 +0.000/-0.004 +0.000/-0.005 +0.000/-0.006

TOLERANCES:

4 0 B

B REFORMAT, ADD ASTM A108, ADD TOLERANCES REV. DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION APPROVED TITLE DE APPR. DE										
EFORMAT, ADD ASTM AVENUSSUE EW ISSUE DS CP CP DA D RR. DS CP TD DES CP TD DS CP TD TD DS TD TD TD TD TD TD TD	DATE	DE APF	APPRO	MFG A	CHECK	DRAWN	DESIGN	REV.	×	8
DS DEED DEED DEED DEED DEED DEED DEED D	12.0	Ř	VED	PPR.	ED	-	_		NEW IS	REFOR
DESCRIPTION DART AEROSPA HAWKESBURY, ONTARIO DRAWING NO. M1018-R TITLE 1018-1025 ROUND BA 1018-1025 ROUND)9.05	1	No.	7	A.P.	CP	DS		SUE	MAT, ADD AST
	COPYRIGHT © 2001 BY DART A EROSPACE LITD THIS DOCUMENT BY THE BY THE DOCUMENT BY THE DOCUMENT BY THE DOCUMENT BY THE BY THE BY THE BY THE BY T	1018-1025 ROUND BA	TITLE	M1018-K	DRAWING NO.	HAWKESBURY, ONTARIO, CANADA	DART AEROSPA	DESCRIPTION		M A108, ADD TOLERANCES
	LTD CONDITION THAT IT IS REPERSON WITHOUT	NTS	SCALE	SHEET 1 OF	REV. E	A	0	DATE	01.06.12	12.09.05

0

0

MATERIAL: MT_WY DATE: MT_WY)	- -	PO / BATCH	н NO.: <u>1003</u> 2	300/SODI
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:		SHE	ET SIZE ORDE	RED:	٥٥.	
DESCRIPTION	NCR (Check Y/N)			COMMEN	TS	
SURFACE DAMAGE	YN					
CORRECT FINISH	YN					
CORROSION	Y (N)					
CORRECT GRAIN DIRECTION	(Y) N					
CORRECT MATERIAL PER M-DRAWING	(Y) N	ASTM	A311		11.1	
CORRECT THICKNESS	(Y) N					-
PHOTO REQUIRED	X W					
CORRECT REF # TO LINK CERT	M M	0153	20			
CORRECT MATERIAL IDENTFICATION						
CORRECT M# ON THE MATERIAL	N					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y					
DOES THIS REQUIRE AN						
EXTRUSION REPORT	YN					
CUT SAMPLE PIECE					SS CHECK.	
			SULTS BELOV		D. 15.5	LWEDOTES
TYPE OF MATERIAL		HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL						
SIZE OF TEST SAMPLE	,_ 					-
HARDNESS / DUROMETER READIN		to and the	# 0	<u> </u>	L	
QC 18 INSPECTION	iesiers	iocated in	the Quality Offic		RING SIGNO	F (if required)

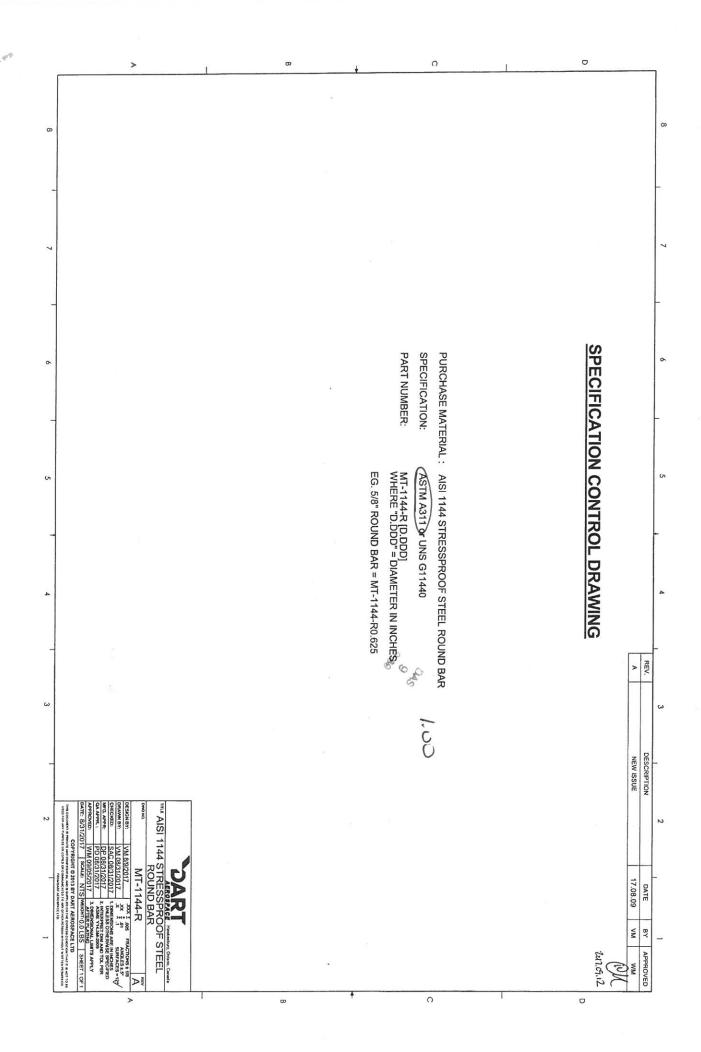
Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SIGNED OFF BY:

DATE:

INSPECTED BY:

DATE: 17.11.15



MATERIAL: MINI	, IT	6 f	23.00)	PO / BA	ATCH NO	:38 <i>19t</i>	5/
MATERIAL: MIDO DATE: 17	1111	03						
MATERIAL CERT REC'D:	se)			HICKNESS C			
QUANTITY RECEIVED:	111	h'.		TH	HICKNESS R	ECEIVE	D: <u>3,0</u>	D
QUANTITY INSPECTED:				SH	HEET SIZE C	RDERE	D:	
					HEET SIZE R			
QUANTITY REJECTED:				31	ILLI OIZL IX	LOLIVE	·	
DESCRIPTION		CR leck			COM	MENTS		
	, , , , , , ,	N)						
SURFACE DAMAGE	Y	N						
CORRECT FINISH	18	N						
CORROSION	Y	N						
CORRECT GRAIN DIRECTION	(8)	N						
ORRECT MATERIAL PER M-DRAWING	(8)	N	AST	M B2	2			
CORRECT THICKNESS	(V)	N						
PHOTO REQUIRED	Y	(1)						
CORRECT REF # TO LINK CERT	(X)	N	HEI	H# 3	B373	4		
DRRECT MATERIAL IDENTFICATION		N	M60	ultle	R3.00			
CORRECT M# ON THE MATERIAL	Ø	N						
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	A						
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	A						
CUT SAMPLE PIECE	E OF	MA	TERIAL AI	ND PREFO	ORM A HAR	DNESS	CHECK.	
				ULTS BEL				
			HRC	HRB	DUR	A	DUR D	WEBSTER
YPE OF MATERIAL								
ZE OF TEST SAMPLE								
ARDNESS / DUROMETER READII	NG							
	te	esters	located in t	he Quality C	Office			

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	Onf	SIGNED OFF BY:
DATE:	17/11/03	DATE:

DELEASE 2009 -09- 09

SHEET 1 OF 1 REV. B

COPYRIGHT © 2001 BY DART AEROSPACE LTD
THE DOOLARD IS FROM THE DOPERS CHOPING OF THE DOPERS CHOPING CHOPIN

TITLE 6061-T6 ROUND BAR

DESIGN GAPANN CHECKED MG. APPR. APPROVED AND DE APPR. DATE 09.07.13

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
M6061T6R

DS 01.08.08 BY DATE 09.07.13

9

B REFORMAT DWG, ADD 8211& 8221 SPEC (ZN D8-1), REF PAR 08-020A

A NEV.

R3.00

SPECIFICATION CONTROL DRAWING

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PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

QQ-A-225/6 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6R D.DDD DIA.

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6R0.625

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8

SPECIFICATION:

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,		, ,		,			1
MATERIAL: MODE	11	61	3.250	5	PO / BATCH	NO.: 3819	0/
DATE: 17	411	103					
							22-43
MATERIAL CERT REC'D:	se	1		THI	CKNESS ORDE	RED: 3	250
QUANTITY RECEIVED:	1 7			THIC	CKNESS RECEI	VED: <u>30</u>	250
QUANTITY INSPECTED:			et extended a little of the second	SHE	ET SIZE ORDE	RED:	
QUANTITY REJECTED:				SHE	ET SIZE RECEI	VED:	
Q0////////////////////////////////////							
		CR			COMMEN ³	re	
DESCRIPTION		neck (N)			COMMEN	13	
OUDEACE DAMACE		N					
SURFACE DAMAGE CORRECT FINISH	TY	1					
CORROSION	Y	N					
CORRECT GRAIN DIRECTION	(Y)	N					
CORRECT MATERIAL PER M-DRAWING	18	N	ASTM	B211			
CORRECT THICKNESS	(Y)	Ŋ					
PHOTO REQUIRED	Y	N					
CORRECT REF # TO LINK CERT	(X)	N	HEA	T#21	000802	07	
ORRECT MATERIAL IDENTFICATION		N	1940	11T61	3.250		
CORRECT M# ON THE MATERIAL	(A)	N					
DOES THIS MATERIAL REQUIRE	Y	(D)					
ENGINEERING SIGN OFF	Y						
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	A					
EXTRODION REPORT	-	16.7					
CUT SAMPLE PIECE						SS CHECK.	
2	-		ORD RESUI				T
			HRC	HRB	DUR A	DUR D	WEBSTER
YPE OF MATERIAL							
IZE OF TEST SAMPLE							
ARDNESS / DUROMETER READI			loopted in the	Ouglity Offi			
	10	sters	located in the	e Quanty Offi	<u> </u>		

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	and	SIGNED OFF BY:
DATE:	17/11/02	DATE:

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

O

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B221

M6061T6R|D.DDD

B

SPECIFICATION:

PART NUMBER:

EG. 5/8" ROUND BAR = M6061T6R0.625 WHERE "D.DDD" = DIAMETER IN INCHES

0

R3,250

DRAWN CHECKED DESIGN MFG. APPR. REFORMAT DWG, ADD 8211& 8221 SPEC (ZN D8-1), REF PAR 08-020A 09.07.13 DART AEROSPACE LTD

HAWKESBURY, ONTARIO, CANADA

DRAWING NO.

M6061T6R

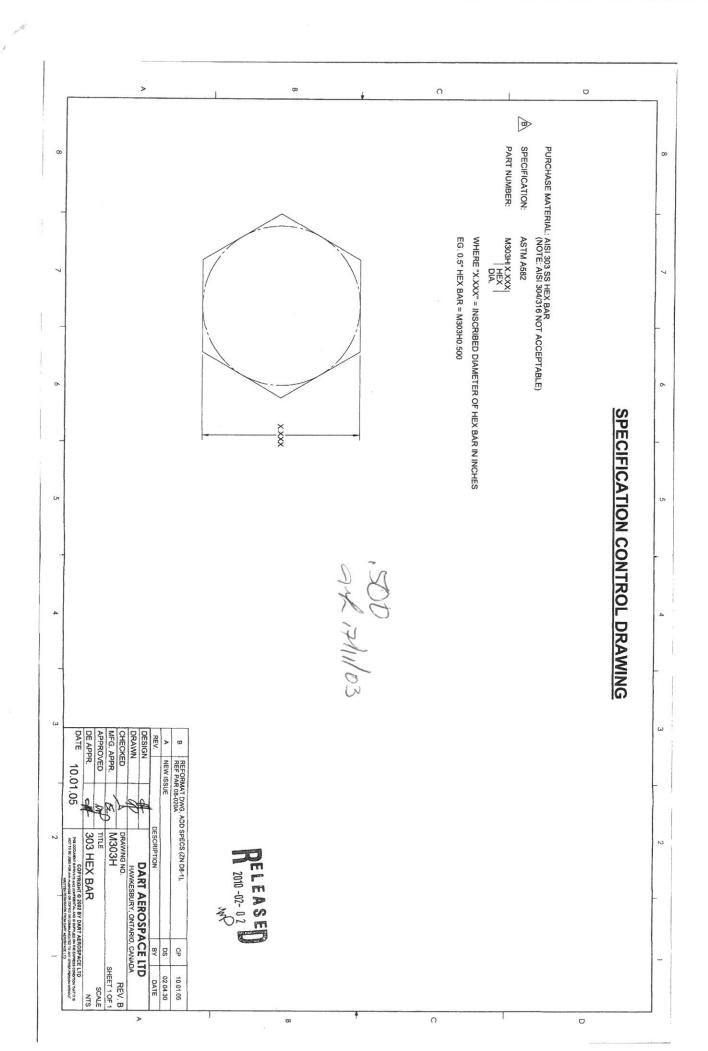
SHEE 6061-T6 ROUND BAR COPYRIGHT © 2001 BY DART AEROSPACE LTD

FORWARE AND COMPOSITION AND IS SEPACED OF THE EXPRESS CONCINON THAT IT IS
FORWARE AND COMPOSITION COMMANDATED TO ANY OTHER PERSON NATIONAL TO THE PERSON NATIONAL THE PERSON NATIONAL TO THE PERSON NATIONAL THE PERSON NAT DS 01.06.08 BY DATE S REV. B SHEET 1 OF 1 SCALE NTS 09.07.13 01.06.08

MATERIAL:M30	3/	40.	SDD			PO / BATCH	1 NO.: 38 P	D			
DATE: /		1/0	3	· · · · · · · · · · · · · · · · · · ·							
MATERIAL CERT REC'D:	ye)_		a j			RED:S				
QUANTITY RECEIVED:	16	Ž'_			THICH	KNESS RECE	IVED:	00			
QUANTITY INSPECTED:	10	2'		SHEET SIZE ORDERED:							
QUANTITY REJECTED:					SHEE	T SIZE RECE	IVED:				
		CR									
DESCRIPTION	100	eck				COMMEN	TS				
		N)									
SURFACE DAMAGE		N									
CORRECT FINISH	Y	N	<u> </u>								
CORROSION CORRECT GRAIN DIRECTION	Y	N									
CORRECT MATERIAL PER M-DRAWING	Y	N	45	TM A	50	2					
CORRECT THICKNESS	Y	N	773	// //	90)						
PHOTO REQUIRED	Y	N									
CORRECT REF # TO LINK CERT	Y	N	HE	ATH	42	9366					
ORRECT MATERIAL IDENTFICATION	Υ	N	M31	03 H	0.4	XD					
CORRECT M# ON THE MATERIAL	Υ	N									
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	N									
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	N									
CUT SAMPLE PIECE			TERIAL A				SS CHECK.				
		_	HRC	HRI		DUR A	DUR D	WEBSTER			
YPE OF MATERIAL											
IZE OF TEST SAMPLE											
ARDNESS / DUROMETER READII	NG										
	<u>te</u>	esters	located in	the Qualit	ty Offic	<u>e</u>					
C 18 INSPECTION						ENGINEE	RING SIGNOF	F (if required)			
INSPECTED BY: Owl					SIGN	IED OFF BY:					

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

DATE:



MATERIAL: M30	31	2.7	750			PO / BATCH	NO.: 38/9	0
DATE:	-/11	10	3					
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:		12	`		THICK SHEE	(NESS RECEI T SIZE ORDEI	RED: 75 VED: 75 RED: 75 VED: 75	Ø
DESCRIPTION		CR eck (N)		34.		COMMEN	гѕ	
SURFACE DAMAGE	Υ	N						
CORRECT FINISH	(8)	Ν						
CORROSION	Υ	N						
CORRECT GRAIN DIRECTION	(3)	N						
CORRECT MATERIAL PER M-DRAWING	V	N	AST	MA	582			
CORRECT THICKNESS	8	N						
PHOTO REQUIRED	Υ	N	11-	A 11	7.1.6	7075		
CORRECT REF # TO LINK CERT	(3)	N	HE	PT#	40	9862		
ORRECT MATERIAL IDENTFICATION	_	N	17.50	23K	751)		
CORRECT M# ON THE MATERIAL	8	N			40			
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	6						
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(N)		8)				
CUT SAMPLE PIECI							SS CHECK.	
	F		ORD RES				DUBB	WEBSTER
			HRC	HR	B	DUR A	DUR D	VVEBSIER
YPE OF MATERIAL								
IZE OF TEST SAMPLE								-
ARDNESS / DUROMETER READI		<u> </u>						
	<u>te</u>	esters	located in	tne Quai	ту Опісе	2		
C 18 INSPECTION						ENGINEER	RING SIGNOF	F (if required)
INSPECTED BY:					SIGN	ED OFF BY:		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

INSPECTED BY:

DATE:

1 2010 -02 - 02

SHEET 1 OF 1 REV. B CP 10.01.05

DS 01.12.20

BY DATE DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
M303R
TITLE
S
303 ROUND BAR B REFORMAT DWG, ADD SPECS (ZN D8-1), REF PAR 08-020A DESIGN GRAWN CHECKED MFG. APPR. CAPROVED DE APPR. DE APPR. DE APPR. DATE 10.01.05

SPECIFICATION CONTROL DRAWING

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PURCHASE MATERIAL: AISI 303 SS ROUND BAR (NOTE: AISI 304/316 NOT ACCEPTABLE)

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WHERE "D.DDD" = DIAMETER IN INCHES

M303RID.DDD DIA. ASTM A582

EG. 0.75" ROUND BAR = M303R0.750

SPECIFICATION: PART NUMBER:

1

Φ

MATERIAL: M3D			00	PO/BATCH NO.: 38/90						
DATE:	10/1	2				20				
MATERIAL CERT REC'D:QUANTITY RECEIVED:QUANTITY INSPECTED:QUANTITY REJECTED:	1	2,	ie"		THICK		/ED:/ RED:			
DESCRIPTION	NC (Che	eck				COMMENT	-s			
SURFACE DAMAGE	X	AN								
CORRECT FINISH	8	N								
CORROSION	Υ	D								
CORRECT GRAIN DIRECTION	(X)	Ν								
CORRECT MATERIAL PER M-DRAWING	Ø	Ν	ASTI	4 A	582					
CORRECT THICKNESS	(Ý)	Ň								
PHOTO REQUIRED	Y	W	11+	1:-	1 11-	2000				
CORRECT REF # TO LINK CERT	8	N	HE	4/1	7 9	39573				
CORRECT MATERIAL IDENTFICATION		N	M31	25/s	2.0	0				
CORRECT M# ON THE MATERIAL	(Y)	N								
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	(N)		***						
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(Ñ)								
CUT SAMPLE PIECI	E OE	ΜΔ	TERIAL A	ND PF	REFORM	A HARDNE	SS CHECK.			
COT SAIVIFEE FIEOR			ORD RES							
	Ť		HRC		RB	DUR A	DUR D	WEBSTER		
TYPE OF MATERIAL								(4)		
SIZE OF TEST SAMPLE										
HARDNESS / DUROMETER READI	NG									
		sters	located in	the Qu	ality Offic	e				
QC 18 INSPECTION						ENGINEER	RING SIGNOF	F (if required)		
INSPECTED BY:					SIGI	NED OFF BY:				
DATE: 17/1/	m2					DATE:				
DATE: / 7/]//										

MATERIAL: M30	20	PO / BATCH NO.: 38190						
DATE: 17/	milns	1				0		
DATE	WITUS							
MATERIAL CERT REC'D:	1110		т	HICK	NESS ORDER	RED: 1-101	n	
MATERIAL CERT REC'D:	111151					/ED: 1.6f		
QUANTITY RECEIVED:	62							
QUANTITY INSPECTED:	le 2		S	HEET	SIZE ORDER	RED:		
QUANTITY REJECTED:			S	HEET	SIZE RECEIN	/ED:		
			100					
	NCD							
DECODIDION	NCR (Check				COMMENT	S		
DESCRIPTION	(Check Y/N)				OOMMENT	Ü		
200000000000000000000000000000000000000								
SURFACE DAMAGE	Y (N)							
CORRECT FINISH CORROSION	YN							
CORRECT GRAIN DIRECTION	Ø N							
CORRECT MATERIAL PER M-DRAWING	(Ý N	AST	M AS	(2	***			
CORRECT THICKNESS	(Y) N		1 0 30	15				
PHOTO REQUIRED	YN							
CORRECT REF # TO LINK CERT	N N	HEA	T# 0	507	2.X			
CORRECT MATERIAL IDENTFICATION	-	173E	3R1.	00				
CORRECT M# ON THE MATERIAL	Ø N							
DOES THIS MATERIAL REQUIRE								
ENGINEERING SIGN OFF	Y							
DOES THIS REQUIRE AN	6							
EXTRUSION REPORT	YN							
CUT SAMPLE PIECE	- 05 144	TEDIAL A	ND DDEE	OPM	A HARDNE	SS CHECK		
CUT SAMPLE PIECE			ULTS BE		A HANDINE	OO OHLON.		
		HRC	HRB		DUR A	DUR D	WEBSTER	
TYPE OF MATERIAL	-	11110	TITAL					
SIZE OF TEST SAMPLE					and the second			
HARDNESS / DUROMETER READI	NG -							
TIANDIVEGOT BONOMETER (12.15)	testers	located in	the Quality	Office				
	-							
					- LOWES	NING CICHOL	TE (if no an issael)	
QC 18 INSPECTION					ENGINEER	KING SIGNOR	F (if required)	
			2	0101	-D OFF DV			
INSPECTED BY:			,	SIGNE	D OFF BA:			

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

DATE:

7 2010 -02 - 02

REV. B CP 10.01.05
DS 01.12.20
BY DATE SHEET 1 OF 1 DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
M303R
TITLE
303 ROUND BAR COPYRIGHT OF THE PART AEROSPACE LTD
THE DOCUMENT BROAT A COPYRIGHT FOR THE STATE OF THE STATES OF TH B REFORMAT DWG, ADD SPECS (ZN D8-1), REF PAR 08-020A DESCRIPTION DESIGN
DRAWN
CHECKED
MFG. APPR.
APPROVED
DE APPR.
DE APPR. REV.

SCALE

PURCHASE MATERIAL: AISI 303 SS ROUND BAR (NOTE: AISI 304/316 NOT ACCEPTABLE)

SPECIFICATION: PART NUMBER:

ASTM A582

WHERE "D.DDD" = DIAMETER IN INCHES EG. 0.75" ROUND BAR = M303R0.750 M303RID.DDD DIA.

R 1.00 m/ 17/11/03

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SPECIFICATION CONTROL DRAWING

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MATERIAL: MAOA'S DATE: 17-11-15	2.2	0163		PO / BATCH N	10.:1 <u>603</u> 2	11002/0911	
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	6 5			THIC SHE	KNESS ORDERI KNESS RECEIVI ET SIZE ORDERI ET SIZE RECEIVI	ED: ©	<u>63</u>
DESCRIPTION	(Ch	CR eck (N)		2	COMMENTS	5	
SURFACE DAMAGE	Y	(N)					
CORRECT FINISH	(3)	N					
CORROSION	Υ	(B)					
CORRECT GRAIN DIRECTION	8	N					
CORRECT MATERIAL PER M-DRAWING	(Y)	_	MSG	0.A.250)		
CORRECT THICKNESS	(9)	N					
PHOTO REQUIRED	Y	(1)					
CORRECT REF # TO LINK CERT	8	N	331101	BI			
CORRECT MATERIAL IDENTFICATION		N					
CORRECT M# ON THE MATERIAL	(Y)	Ν					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	B					
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(A)					
CUT SAMPLE PIECE	= OF	. NA A	TEDIAL AN	ID PREFOR	M A HARDNES	S CHECK	
CUT SAIVIPLE PIECE				JLTS BELOV		J J 120 1.	
			HRC T	HRB	DURA	DUR D	WEBSTER
TYPE OF MATERIAL		_					
SIZE OF TEST SAMPLE							
HARDNESS / DUROMETER READ!	NG						
THE TENED TO STATE THE TENED		esters	located in t	he Quality Offic	ce		
	-						

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

ENGINEERING SIGNOFF (if required)

SIGNED OFF BY: ____

QC 18 INSPECTION

INSPECTED BY:

DATE:

O

PURCHASE MATERIAL: 2024-T3 ALUMINUM SHEET

SPECIFICATION:

QQ-A-250/4 ORAMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209

PART NUMBER:

M2024T3S XXX

9-86 SMO

PREFERRED SIZE:

XXX BY 4FT BY 10FT

EG. 0.063" THICK SHEET = M2024T3S.063 WHERE ".XXX" = SHEET THICKNESS (IN INCHES)

REFORMAT DWG, ADD ASTM B209 SPEC (ZN D8-1), PAR 09-020A CP 09.07.07

DESIGN
DRAWN
CHECKED
MFG. APPR.
APPROVED

DART AEROSPACE LID
HAWKESBURY, ONTARIO, CANADA
DRAWING NO
M2024T3S
SHE

REV.

DESCRIPTION

BY DS

01.09.24

DATE

NEW ISSUE

DE APPR.

2024-T3 SHEET SPEC

REV. B SHEET 1 OF 1 SCALE NTS

09.07.07

B

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MATERIAL: <u>130</u> DATE: 17/		25	DX4-0	00.	PO / BATCH	no.: <u>3<i>819</i></u>	10	
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	2,		THIC	KNESS ORDEF KNESS RECEIV T SIZE ORDEF T SIZE RECEIV	/ED:	50		
			N/					
DESCRIPTION	NC (Che Y/I	eck V)		1	COMMENT	-S		
SURFACE DAMAGE	Y	N						
CORRECT FINISH	(Y)	N						
CORROSION	Υ	(1)						
CORRECT GRAIN DIRECTION	(8)	Ν			4			
CORRECT MATERIAL PER M-DRAWING	(8)	Ν	AST	M A276	e AST	14240		
CORRECT THICKNESS	(Y)	Ν						
PHOTO REQUIRED	Ÿ	(N)						
CORRECT REF # TO LINK CERT	(3)	Ν	HE,	4TH 51	2698			
CORRECT MATERIAL IDENTFICATION	CY	Ν	730)4B.25	5x4.00			
CORRECT M# ON THE MATERIAL	Y	Ν						
DOES THIS MATERIAL REQUIRE		Δ.						
ENGINEERING SIGN OFF	Υ	(N)						
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(A)	381					
CUT SAMPLE PIECE				ND PREFORM		SS CHECK.		
			HRC	HRB	DUR A	DUR D	WEBSTER	
TYPE OF MATERIAL	}		TINO	TIIVD	DONA	DOND	112201211	
SIZE OF TEST SAMPLE	ŀ	-						
HARDNESS / DUROMETER READI	NG I							
HARDNESS / BOROMETER READIN		sters	located in	the Quality Offic	e			
QC 18 INSPECTION					ENGINEER	ING SIGNOF	F (if required)	
INSPECTED BY:				SIGNED OFF BY:				
DATE: 17/11/	03				DATE:			

0

SPECIFICATION: PURCHASE MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE (NOTE: AISI 303 NOT ACCEPTABLE)

ASTM A276 OR ASTM A240

O

M304B T.TTT X WW.WWW | WHERE "T.TTT" = THICKNESS IN INCHES AND "WW.WWW" = WIDTH IN INCHES

PART NUMBER:

EG. 0.5" x 3.0" BAR = M304B0.500X03.000 EG. 0.5" X 12.0" PLATE = M304B0.500X12.000

SOX 4.00

DELEASED

10.11.25

REV. C

0

MB CP

REFORMAT DWG, ADD SPECS (ZN D6-1), REF PAR 08-020A

DESCRIPTION

ADDED PLATE TO PURCHASE MATERIAL, ADDED PLATE RELATED SPECIFICATIONS, AND EG.; CHANGED TITLE FROM '304/316 BAR' TO "304/316 BAR/PLATE"

PH 05.06.10 BY DATE

09.07.15 10.11.25

DESIGN
DRAWN
CHECKED
MFG. APPR.
APPROVED

SHEET 1 OF 1 SCALE NTS

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
M304B

MATERIAL: M3045 DATE: D.II.15		GA			PO / BATCH N	1 <i>0::</i> 01	צרורססצ/סף
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	25 59 59	/F2		THICK SHEE		ED: 18	
DESCRIPTION	NC (Ch Y/				COMMENTS	S	
SURFACE DAMAGE	Υ	(A)					
CORRECT FINISH	(2)	Ν					
CORROSION	Υ	3					
CORRECT GRAIN DIRECTION	(2)	N					
CORRECT MATERIAL PER M-DRAWING	(2)	N	AST	CYSA 1			
CORRECT THICKNESS	(2)	N					
PHOTO REQUIRED	Y	(A)					
CORRECT REF # TO LINK CERT	(1)	N					
CORRECT MATERIAL IDENTFICATION		N					
CORRECT M# ON THE MATERIAL	(A)	N					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	(1)		54.			
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	N					
CUT SAMPLE PIECI	E OF	MA	TERIAL A	ND PREFORM	M A HARDNES	SS CHECK.	
	F	REC	ORD RES	ULTS BELOV	V		LAMEROTER
			HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL							
SIZE OF TEST SAMPLE							
HARDNESS / DUROMETER READING							
testers located in the Quality Office							

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	DAS	SIGNED OFF BY:
_	9-89	DATE
DATE:	17-11-15	DATE:

œ

	GAUGE THICKNESS R			PART NUMBER:	FINISH:	SPECIFICATION:	PURCHASE MATERIAL: AISI 304/316 ANNEALED
GAUGE (IN) GAUGE (IN) RANGE	REFERENCE:	EG. 16 GAUGE SS SHEET 2B F EG. 16 GAUGE SS SHEET No. 4	WHERE "TT" = GAUGE THICKNESS WHERE "#P" = FINISH IDENTIFIER	M304S TT GA #P	FINISH UNPOLISHED No. 1 UNPOLISHED No. 2D UNPOLISHED No. 2B UNPOLISHED No. 3 POLISHED No. 3 POLISHED No. 4 POLISHED No. 6 BUFFED No. 6 BUFFED No. 7 BUFFED No. 8 P	MIL-S-5059 OR AMS 5513 (304) OR AMS 5513 (316) OR ASTM A240 OR ASTM E 5A240	AISI 304/316 SS SHEET ANNEALED
THICKNESS RANGE (IIN) ROTOR ROTOR		2B FINISH = M304S16GA No. 4 POLISHED = M304S16GA4P	IESS IER		DART M-NUMBER IDENTIFIER 1P 2D NONE 3P 6P 6P	98.0 9	A CP Das .

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DESIGN
DRAWN
CHECKED
MFG. APPR.
APPROVED
DE APPR.

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
M304S

SHEET 1 OF 1

REV. D SCALE

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15.01.06

REV.

DESCRIPTION

NEW ISSUE

REFORMAT DWG, ADD ASTMIASME SPECS (ZN D8-1), ADD GAUGE REF (C8-1), REF PAR 08-020A DEFINED FINISH OPTION (ZN C8) AND EXAMPLE OF MATERIAL PIN WITH FINISH OTHER THAN 28 (ZN B5).

> S M8

12.09.20 09.06.01

15.01.06

BA DS

01.09.24 DATE

ADDED GAUGES 0-7.

0

RELEASED

ECN 15-522 9

2015 FEB 04

В

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O

MATERIAL: M3043246A PO/BATCH NO.: 10034190 /3007176

DATE: 17.11.15								
MATERIAL CERT REC'D:					ERED: 24			
QUANTITY RECEIVED: 32 52 /F1					THIC	KNESS RECE	IVED: <u>24</u>	GA
QUANTITY INSPECTED: 33	5	IF.	1		SHE	ET SIZE ORDE	ERED:	
QUANTITY REJECTED:	1	, ,			SHEE	T SIZE RECE	IVED:	
QOANTIT RESECTES.	<u></u>			-	OTTE	I OLL KLOL		
,	NIC	OR.	Ι					
DESCRIPTION						COMMEN	ITS	
DESCRIPTION		(Check Y/N)				OOMMINE		
CUREACE DAMACE	Y	W				· · · · · · · · · · · · · · · · · · ·		
SURFACE DAMAGE	M	N						
CORRECT FINISH CORROSION	Y	(N)						
CORRECT GRAIN DIRECTION	(Y)	N	 					
CORRECT MATERIAL PER M-DRAWING	Ø	N	ASTM	CA I	10			
CORRECT THICKNESS	(Y)	N	17011	Bor				
PHOTO REQUIRED	Y	(N)						
CORRECT REF # TO LINK CERT	(Y)	N	8473	510				
CORRECT MATERIAL IDENTFICATION	_	N	200		- 40			
CORRECT M# ON THE MATERIAL	R	N						
DOES THIS MATERIAL REQUIRE					PHIL			
ENGINEERING SIGN OFF	Υ	(10)						
DOES THIS REQUIRE AN		0						
EXTRUSION REPORT	Υ	0						
CUT SAMPLE PIECE	- OF	MA	TERIAL A	ND PR	EFORI	M A HARDNE	SS CHECK.	
001 0/101 22 / 1202			ORD RES					-
7	$\overline{}$		HRC	HF		DUR A	DUR D	WEBSTER
TYPE OF MATERIAL								
SIZE OF TEST SAMPLE				100				
HARDNESS / DUROMETER READIN	NG		****					
	te	sters	located in	the Qua	lity Offic	e		
					Constant but			//
QC 18 INSPECTION						ENGINEE	RING SIGNO	FF (if required)
INSPECTED BY:					SIGN	NED OFF BY:	T	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

DATE: 1711-15

PURCHASE MATERIAL: AISI 304/316 SS SHEET ANNEALED

SPECIFICATION:

FINISH:

DART M-NUMBER 1DENTIFIER 1P 2D NONE 3P 4P 6P 7P 8P FINISH UNPOLISHED No. 1 UNPOLISHED No. 2B POLISHED No. 3 POLISHED No. 4 BUFFED No. 6 BUFFED No. 6

PART NUMBER:

M304S TT GA #P

WHERE "TT" = GAUGE THICKNESS WHERE "#P" = FINISH IDENTIFIER

EG. 16 GAUGE SS SHEET 2B FINISH = M304S16GA EG. 16 GAUGE SS SHEET No. 4 POLISHED = M304S16GA4P

GAUGE THICKNESS REFERENCE:

NOM. THICK. (IN) 0.01875 0.021875 9-025 0.028125 0.031375 0.037375 0.04375 0.05025 0.050375 0.050375 0.050375 0.06025 0.0703125 0.09375 0.10

REV. D SCALE SHEET 1 OF 1 15.01.06 12.09.20 01.09.24 09.06.01 DATE DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
M304S COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS SOCUMENT IS PREVATE AND COMPENDING IN UNEST FOR NAY OTHER PRINKE. NOT TO BILL USED FOR NAY OTHER ON COMMANDATED TO MAY OTHER PRINKE. AJS MB CP REFORMAT DWG, ADD ASTMIASME SPECS (ZN D8-1), ADD GAUGE REF (C8-1), REF PAR 08-020A 304/316 SS SHEET DEFINED FINISH OPTION (ZN C8) AND EXAMPLE OF MATERIAL PAN WITH FINISH OTHER THAN 28 (ZN BS). ADDED GAUGES 0-7. 15.01.06 NEW ISSUE DESIGN
DRAWN
CHECKED
MFG. APPR.
APPROVED
DE APPR.
DATE
15 REV. O 60

RELEASED

ECN 15-522 9

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MATERIAL: HSOS		32.	3.040	- -	PO / BATCH	ио.: <u>Рооз</u>	711 <u>002/0918</u>
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	7 2 4 2	2/E	4	THIC SHE		VED: -04 RED:	
DESCRIPTION	(Ch	CR leck (N)			COMMEN	ΓS	
SURFACE DAMAGE	Υ	(N)					
CORRECT FINISH	(Y)	N				***	
CORROSION	Y	0					
CORRECT GRAIN DIRECTION	8	N					
CORRECT MATERIAL PER M-DRAWING	(8)	Ν	QQ- A	-250/3			
CORRECT THICKNESS	(Y)	N					
PHOTO REQUIRED	Y	(W)					
CORRECT REF # TO LINK CERT	8	Ñ	DOSE	0370K			
CORRECT MATERIAL IDENTFICATION	8	N					
CORRECT M# ON THE MATERIAL	(Y)	N					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	N					
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(M)					
•							
CUT SAMPLE PIECE	OF	MA	TERIAL A	ND PREFOR	M A HARDNE	SS CHECK.	
				SULTS BELOV			
			HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL							
SIZE OF TEST SAMPLE			20.73				
HARDNESS / DUROMETER READIN	٧G						
	te	sters	located in	the Quality Offi	ce		

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
	DAS	
INSPECTED BY:	9	SIGNED OFF BY:
	9-84	
DATE:	0.11.15	DATE:

PURCHASE MATERIAL: 5052-H32 ALUMINUM SHEET

0

M5052H32S .XXX QQ-A-250/8 OR AMS-QQ-A-250/8 OR AMS 4016 OR ASTM B209

PART NUMBER:

0

WHERE ".XXX" = SHEET THICKNESS (IN INCHES) EG. 0.063" THICK SHEET = M5052H32.063

.XXX BY 4FT BY 8FT

PREFERRED SIZE:

 B
 REFORMAT DWG, ADD B209 SPEC (ZN D8-1), PAR 08-020A
 CP

 A
 NEW ISSUE
 DS

 DESCRIPTION
 BY
 DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA 09.09.26 01.06.08 DATE

DESIGN
DRAWN
CHECKED
MFG. APPR.
APPROVED

M5052H32S

REV. B SHEET 1 OF 1 SCALE NTS

>

09.09.26

TITLE NTS

5052-H32 SHEET SPEC NTS

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